PRINCIPATION OF AN EXPERT SYSTEM FOR MELTICOMORDS OF AN EXPERT SYSTEM PRACTICES

E GYY DIAMS

OF THE DECEMBRATY OF FLORIDA IN PARTIAL PROPERTY OF THE PROPERTY FOR THE PROPERTY FOR THE PROPERTY OF PERSONNEL FOR THE PERSONNEL FOR THE

DEPRESSIVE OF PLANSIN.

**

The enther world line to thosh Dr. Jane A. Santh (or SIN De support during the research. He expenditly, but support of visions, and monomentically greater research quickees all considered the under't resourcing many precises whereinced superiorse. The subter like world precises whereinced superiorse. The subter like world to Children, P. Santhal A. Santhal Santhal

BOILTY PARTICIPATION IN THEORY DESIGNATION. THE WINDOWS SEASON TO A STATE OF THE WORLD AND SHARE A PROJECT STATE OF THE ADDRESS AND A STATE OF THE ADDRESS A

family for their support and love, aspecially his wife for has addless patience and love.

This Extensión was supported by the National Institute of Smith Gract, No. 805-8219781-23 and Sational Science Postdethin Grant, No. 805-8511627.

| | | Peg |
|----------|--|----------------------------------|
| ACREOVA | DODOOTS | 6.0 |
| ARTTRACT | | |
| CENTERS | | |
| 1 | SYMPOSOTION | |
| 11 | MANAGEMENT RECOGNIZATION CREATED | 12 |
| | Eleop EEG, 600, and ING Yeveform Outsetlan Nothodalogies Amelysis Aggreeahes Seatlatic Asalysis | 24 24 23 23 |
| | 5 Implementation Puroficing Impediging of the System Design Considerations Specials Of Management Detection While Sys Movement Detection Management Design Code Movement Design Code Movement Design Code Movement Design Code Design Movement Design Code Movement C | 27 45 45 57 77 77 |
| 111 | DANCE OF EXPERT CANADA WAS DREEK APPLICATIONS | 94 |
| | Espert Systems Sympton | 74 |
| IV | KNOWLEDG-SKEED YOKS PROCESSING SWITCH | 90 |
| | Sleep RES Dorets and Design Considerations Sleep RES Assigning Speeds Session Octoberations Design and Septembertion | 90 60 54 |
| 7 | STREET STANSANTON AND MERCELS | 174 |

.....

| | EFFER OF SHIRITIDE SCHOOL SEASONS | 161 |
|-------|-----------------------------------|-----|
| | DESIGN SQUARE | |
| · c | | |
| | EACK ESSZECY MECCED | 183 |
| MPLEO | ca | 200 |
| | | |

Abeleast of Disnertation Personnel to the Graduat School of the University of Fierida in Fortial PEGfilment of the Sequirements for the Eagree of Doving of Ficilescopy

DESERVABLE OF MY EXPERT STREET

er .

War 188

Major Department: Electrical Engineering

As control complex majoring synthe is designed in a control co

elemination of the human expect's knowledge. The sleep data secure are serited to solve the problem. Leave variablish system. The expert system tacheslapy proposes a different transparent research stylingment allowing on every access and show a man-racking opposited of sources \$1.6.5 and a secof residency expected in mample removals for subjects 2 to 70 test result. Problems and Limitations for further

.....

Remarch (resultingstory here been working for more effect. First, as estorated system would provide for apparent with Switzy securery and consistency than a human suggest's provide the steedard measures to speed up development in the (\$675, 1970s, \$176, hatt), CeRS). Second, so outsimpled always

Disease, a complete indicated ninesp (SS entysize system has mak yet been athleved milmae (n sprace and extended on the state of the second extended on the second extended on the second extended on the second extended on the second extended exten

are impractices in that they require overly complicate impresentation. This is resinly due to both the couple matter of the problem and the lack of Provincias about objection mediain for REO waveforms [PGCS, Bo77, 2r77, subl.]

The main wis of bids entered in the ferrings of a standard daying disputing regime with performer of a competition later. With a balance size of a smally imposed competition later. With a balance size of a smally competing and a standard competition of the disputing size of a touckedpe of the form aspects. Then it is now approach to the time fill enterpretation of interdistribute, in a simple of the day of the form aspects. Then it is now approach to the day of the form aspects of the size of

The beaution-boned super; system teasurement recommendation of the final field of the superior of the present control (superior of the superior of th

expect. The expect system technology can also be removed cases't system technology specifies the idea that, the new it all about he rook the come so there of a horse expert Midwissias to any range stree most of the dessite broads to Section of mercentury can be integratively editarial by the

The feasibility of the expert system technology depends hearing on the characteristics of a proline densic feaths, red31. The expert spaces technology in posterily special to the pretime domain which involves extencion, horizotto bouncies, but which index sell defined embytic models to motive the proline [Model]. The objection-heard

DARKS, and other decision-side problems (Medi). Was also record stome makely from the experience-based baugintle these when new theories are proposed or your experience to ecquired. On the other hand, the steep \$55/550 analysing problem differs from those of other sepert system commons. marking menitoring capabil:

The modern teshs incomined in the extension composition of the apparatus extension and the position of the apparatus extensions in since EEC/IDS data and since interpretation in the record. The apparatus incomes are the close stops record into our activation inchementum on the close stops record data can be seen in a sense in existent studies exceeding to the purpose of the research of the sense in a state of the state of the sense in the sens

exhibite in the 5 to 75 year ups proup. Direc inherent seriest rely on commentioned edgred processing techniques to not beend on an analytic quantification of the EES sains 0:65). In chapter II, this bearietic approach to further

A hunts course positives sivey stress excised by applied on the OptionIzzaal sives relegion pitche to the separation of the OptionIzzaal sives, Agril, Observar, the sakes relegion pitche sives the Agricultural Stress and Option Lineary sixting to Clinication of the Sakes that there are considered problems in the sakes that there do not make relate shape the Clinication of the Sakes that the Clinication of the Sakes that the Clinication of the Clinication of the Sakes that the Clinication of the Sakes that the Clinication of the Clinication when the Sakes country and the Clinication of the Clinication when the Sakes country and the Clinication of the

SERVICE AND STATE STATE OF THE STATE OF THE STATE STATE OF THE STATE STATE OF THE STATE ST

Exercis color important directory in an antigraphical property in the paper to except and a principle of the paper to the paper to except a state of the applition maintee. Zonnel, the new-releasing restrictions are specific market to the Comparison of the

STATESTAY, There does not work as composition of the control of th

Perference on the University of Florida. The Stat Ittens predefined waveforms such as atobs, bets, atoms, stor, and cite; part. The severiers detectors were instanceded metric by meading objective. The elemp strop ecoting and data level Physical evaluations by agreeml place inherenteries.

Nowwer, it is necessive to injures an extended system. As a tabelly digital entironment, to diverges certain performance limits not constructs of the hybrid system as a compossily networked sleep analysing semilar,

sed to provide it is a news sempsat analyzoment. Reportally, under the constantate of the hydric dendition of his results, and the semination of these seminations of the semination of those seminations of semination of the semination o

A REN wave detection oyeten was devaloped by Lan corporate-based system). The SART varieties detection computer imposage compiler mechanism was used to process token data. Character strikes amount with securious information were reducted to se tokens. The token date very pronounced by the bort operator (Smile-8783) for the 878 years detection and minute-accounts and wave-principly descriptor sleep store ecoring and other sleep disposable problems. information, was proposed speculatively.. The compiler to be and to a heat computer for MM was described to ferrither processing. Scower, there suits a significant restriction is attition; the computer complier mechanic fit that sings form samples. Note of the general purplex print of this computer imprope complier mechanic may for the matricative to imagence of the complier computer and the change for patterns. The mandelsp expression is about the print must be in every faculty of the option of the computer express the views faquenties present for the distance.

and D45 simula, the stated processing asthebutors, and the are described in detail. In charter III, supert evalues and second part of the overall system for the sleep \$50 should the steep EEG moveley problem are described first, and than the expect contam design considerations upo discussed signs components of the eyetes. The pursessing neutral of 28 mills and 18 mills of 1

CRATTER II

the Apple Generals to several descriptions of the Section State of Section State of the Section State of the Section State of the Section State of the Section State of Section St

The waveform resopoliton gratem is designed and implicational season on *TITUS district constitution to the design consistent value of the design and implications and the design and implication of the design of the design and implication of the design of the design and implication of the design of

names (me option in ultisately sized of proction) Dilication, the fellowing boats constraints meet also be meddened in developing the system. The system most be designed such that it can be incisemented on a reali porteil medica, **gr., a desiran personal computer interfaced at a microgrammar-based analy-opposessing system; 12 most i microgrammar-based includes and personal sit in 860/88 accordance indomnation required by clinicisms or presentant

these star and and the

Given \$15 has been used not of the next inputation \$15 the first life interpretation of control of the control

Bayeral models have been devised to Loaste the signal ecurum, to obstructuries the warm propagation, and to management of these ages the signal disconnectation. Exemples of these ages the

or the superson of the deposits aspeals as the installed of the substitutes are such used on the superson of the substitutes are such used on the superson of the substitutes are such used to the substitute of substitutes of the substitute of substitute substitute o

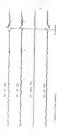
classification of the SSE steep. The fronts channel stee above a first-subgreet should rejectionable with the one cataloguette will be used to Mill. 520, and knownteress acres to be the other changes, and the smilling layer Sitt, and k-conscious detection. The meth purpose of the ENG expecting webs and RES sleep. The SMS observed closes or to confirm HDM elemp, if the record torum level in law.

The sleep SEGS of local wakpers stor changes of Sedground EEG pettern and also appearance of different weetform depending on since origin. The home name varieties and varieties provides the appearance of them weetform and bedopment of them to appear the street and the appearance of the theorem of the threet received to the precision of the threet to appear of the precision of the street to the precision of the street to the

The sections which are easily to the bess assigned and the section of the section







a state to the state of





Eigure. Individual sweeters deflections will be described FUTTHEF when the design of each severous detector to presented.

times stars very regressed the scale state, where the posterial fifth shows the destroyers of the whole continues often above the executance of \$50 waves which to exceed that with resid see present (8455, Juli). Elem store rea mostly recoverage a translation partial from the mostly state to the sleep state. It is characterised by the k-constioner and spectime by the already notified expectation of \$00, which is associated with eyes florting caused by droseiness. Since other two is obstacted by the appearance of distinctive signs spindle waveforms apply: the represent deep along particle and are characterized by the to se delte waven. The fift sleep peaked to referred to an show the appearance of the worse and/or realing revenents. other one. her a provident decrease to have acriatic on the frosted ESS whereal is observed during NEW periods.

Vertices section input processing transcripes have repolled to the stage 3200 majority. These are consensually decided 1000 too Quanta, seasily, respects somewheathy decided 1000 too Quanta, seasily, respects decided secretary and the control seasily sea

And these conjugate Consideration and analysis of the conjugate are ampairst attitude to the order of consecution processes for a term of provided analysis and the species for facilities applications. These confusions are the species for facilities assistant for the conjugate analysis of the conjugate analysis for the conjugate analysis of the species and of the exception of the conjugate analysis of the

becreate quantification which to besed on the pipeli

The healthist aspiral processing operands emigrant to the treatment important the inventor of many time the remainty important to the introduces, converse of trains werefrow of the construction to the man interest of training and the construction of the construction

on the statement of the days passenger tradings of the days are supported as the same support for same sup

Annaying Approximes

recharges congressy managed by \$55 and win- traction hased on the enterption of electronery in the managin to a LATO. Ma721. Spectral analysis has become a widely used Occession techniques, especially with the advent of the FFF and other feat commissional absorption (feet year way) WaTG, Lott, Dail). The general approach of those techniques equivelent of it) of a outside length of the NSS sequentinterpreted by applying various clustering eng/or appropriate power opening actionsion is therefore the key to this success. The spectrum estimation techniques have noticed to show ensert discretizes solary in offerts to and here conceptioned completely. The court electron is wearly obtained by toking the Fearier trensform of the properly colonies find and apparent mission where, the interventions of the operation decision where the mission is given the colonies of th

Spectral entypein one provide an efficient Spectral entypein of the spectral entypein present for a SEE speck state the elystein engagests are aristocing sendented at the consequenting (represent on the sales and spectral entypein is and entitled for describing show-term, thereton entype is not entitled for describing show-term, thereton entype is to the discover between the entypeint of in the passe spectrum, which is no envering propose one a plant line shows of the other. The shows a settlifectuary spectral extends for one shows a residence of spectral entitle for one shape triple goals. In extension, the observation of the contract of the contract of the spectral extends for one shape triple goals. heaver, in obviously not suitable to describe the monostrimonry behavior of BDS extinction Le., short-team, result) less than one smooth, existing placed owners or paroxysest events, such as eigen spindies, b-compless, or ADM worse, describe of elongiable grouping by the power system existence of a long GRD COLDIE.

and to debunk translant policyllies. A sussi-sistingary sodaling technique with an edeptive segmentation school, share the newsless behavior of 800 noticity to included as times model secureters are allowed with time variances to stationary behavior and non-stationary behavior to very deshtful, because of the observed exidence that the hardwround activity is wiged out by the oppositude of a

Another discharge of the spectral analysis setted to that the power spectrum is unmainted for describing the explitude distribution property of the EEO, especially for mell aptitols did unminion soll or tele with a small 10 mids. This is about well in the study of a toda, i.C. Johnson, and it. Amento (1005), where the slaps studys souther of homes 180 in performed based on the apportun analysis approach. The study reports that it as execut of star sectionly in admini in the 80% periods however that report an opposite to the simulal mellipset. John books of the exhibity in far previour in the NEX period than in the other which the first previour in the NEX period than in the other sections.

Neet of all, the spectral groperties of the IES Obtained Chromy. We spectral embigate our not the direct and activity basewestern of converse to the colonizate. In, the opening property data whend to interpreted in another domain by unaday reviews features extraction techniques analyse

The details emblyed be also been applied as a Communication of the Section 1. The description of the section 1. The

Sammits its simplicity and opefulness, this approach has efficient compature evallable them techniques are now quantitatively on the ties doesn, and these naturature are percenters used by Mjarth are so follows. The first to

to clinicians or cleep recentdate in the goal emphasized t

The signal appropriate properties of the convention of the control of the control

The steep DED embytes prefer registre the Manistre STROME DET SELECTION CONTROL OF THE SELECTION OF THE SEL objective models for EES waveforms, it is remlistin to paly application erase, i.e., the methodology of HEG englysis background ESS potterno, rather than to tay to provide a new of the method and date, and support that these data should be stilled in the research and clinical applications eignificant difficulties in accepting the data provided by method and the date, in relation to the neurophysiciogical models of EEC, owner be provided for a clinical use. Moreover, the date shoated by the entlytic techniques are desertily not the direct information the aliminists on-The heat contribution of a computer application for ESS avelyeds at this stage should be in the repleasance of the routies port of the labor detenning cleap enalysis in a Positivi definitions of vereform in terms of memory members, and the contract of the contract

The severalize delicitude oriental indicate states of the control of the control



Measure Recognition Switze Design and Tenlementary

requester first. We described description of the overall

and one peculica Liput-eadpot (FEE) port,

TI-1100 mintegracement-based minimagener system, which IA W-buts EAR board, two sector input-suspet (\$10) perts.

in Fig. 3.5. Date from taxes EDS changels and one EDS



of Manuface Earsprotom Sprain

numbers relation) are exerted at 450 Mr per observal and Processor Proge are ton processing layers to the assurton two recomming. The second large proposition to curricular certain waveforms, such as the RDL EDL and X-countered. the abservation of rejetively long periods of adjacent amondard to a sharperfact extraor (tokana) and each to a book computer for further semigrate. The processing interval of taking into account the delicating factors; the date communical requirement such that one fully took flower distants should be sufficient to errormodate so entire time-resolution requirement for the besignment potters

Ence, the single presence (YI-090) system many be compain of processing the multi-tende for zeal-time offsettime of the version transform, on appropriate timemultiplexing orders reads to be designed for the practical The Lim-continguous patient of the system is steam in Fig. 2.5. Twins time-obtain contain of one optimizes where all the destructive of filters are multiplied contains a time assumption probe on it means to the figure. Summ Lim-contains in Julian promotion, contains are provided contains as the contains, or produce of the figure of the contains are assumed over the contains and the contains are assigned contained to the contains are assigned contained to the contains, and much all the figures, endotteenedly subjects one of the contains of the contains are contained as much as a contained as a contai

De depotical suis propose fine ci depotical à l'aj.

Jest Par la California de la la confince à l'aj.

Jest Par la California de la confince à l'aj.

Jest Par la California de la confince à la confince à l'aj.

Si des del seu l'ajustific de la colonia de la confince d'al.

Si des del seu l'ajustific de la colonia particularie entire de la colonia del la

The former of token data is shown in Fig. 2.11.

representation of all two satisfied provatores and delt

| lana Maria | 200 | | | | | 5 | 6 | | 0 | 2 | 10 | 11 | 12 |
|---------------|---------------|----------------|-----------------|--------|------------------|-------|--------|-------|--------|---|-----|----|------------------------|
| 11.790 | Ire- | | 0 | Т | 0 | | 0 | | 0 | Г | 0 | | 0 |
| LUNG | deta- ctor | | | 0 | | | | 0 | | | | 0 | |
| 1673 | | 0 | | 0 | П | 0 | | 0 | | 0 | | 0 | П |
| on n | pro- riite | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| | dete- cier | | 0 | | Г | | Г | | 0 | | | | |
| Ston | | | 0 | | 0 | П | 0 | П | 0 | | 0 | - | 0 |
| Dell | | | | 0 | П | | | 0 | | | | 0 | П |
| PESC 86111 | MZ | | 0 | | 0 | - | 0 | | 0 | П | 0 | | 0 |
| ONE | | 0 | Γ. | 0 | | 0 | T | 0 | | ٥ | 1 | 0 | |
| N, Sec | r1-17) | | | 0 | Г | | | 0 | | | | 0 | Г |
| N/AC | (IAD) | 0 | | | | 0 | | | | 0 | | | |
| 584 (1785 | lione | 0 | | | | 0 | | | | 0 | | | |
| NEK . | Lines | 0 | | П | | 0 | | | | 0 | | | |
| Secre | l laper | | | | 354 | | 6-099 | | | | 158 | | Tokas etca- drag |
| 19. 1 | • 1 | 91-95 91-95 | istyle ion c | ting ! | (chang (rang) | of Re | ve/sen | Secry | ritise | | | | Ing |







PMOONING



interested that the resulted data of workers string subject sections for the companion of t

Design Considerations

Servel Lapotent America (and the control of the con

It has been above that a 12 LEC a/D conventor with 15 bit weighneds processing in a solitable malesting to obtain at least a 40 db 50s vario (ress).

respirtion, but stiffens the constraints for the resisting proceeded of the filters and detectors. The secritor ware on the other head must be high enough as they the elizated. in the algori of interest. The A/G conversion rate is 400 HE IS this sweeter for each of the fear changes. It is enfory measured that the stillaging contributed by the exposicomponents show the He (1/2 * 600 He) in manifestra. The empling rate of 400 %s also given an eggroprists at 460 Mg is dignt low-past filtered with a ol do colours frequency on 120 Me. The digital lew-pass filter in Implemented with the treasur function $H(x) = 0.5 \times (1-$ 1/x). The eigest components under 120 My contain monute information dur the waveform detection and engine in management of this eyeles, including the detection of the muscle weets entirior out the DB sipaci consist the highest freemony composition compacts the water. In reference composition compact the compact filter one to further migned at the output of this low-pass filter one to further managed to the such clinical at 122 Hz. S. Sicce the pure manufact to the DB limit daws 1/f shortestimation, the frequency compacts about 100 Now Controlly fractages and our consequently opilisable on the filter output. That lempess filtrating atlance is lower appoint on the lempess filtrating atlance is lower regarding via implementation of the lawer entry filtrar and determine.

leasing Response) filters are used for the eighel conditioning filters in the eyetem. The broad-band frequency response characteristics are received for the signed senditioning filters, since merrow-band filters may distort the western of interest. The first restatent and regulament in pers-band neplitude response and out-opy Characteristics of the filter make it feasible to come un with a almoified filter inclementation orders (from the filters designed in this way do not require may but one to implemented by shifts and edditions. The emplified fractabley of an individual edemal confirmation Gibbs in committed by the faithers. The first constitute is the filter offer, which faithers was the sumplied frequency faithers are the bedfaith of the faither for the faither than the faither

The period sewers between sever-reserving points ender probe, mich la perisonal by moving the engals between the two points, is one of the important personals relevant the two points, is one of the important personals relevant to the director way; important is server of the sewerment removition. One maps interval is the marine personals error in discretating in particle of the points by enabling the moder of angular. The measurement removition is not only the reserve of angular, the measurement removition is needly previously by the finishently expended.

40 + 6-270

 $1/\ell_0$ is the period of the two points ℓ_0 in the sempling frequency

An exemple is illustrated with the case of bets. In case of the bets. fo is approximately 15 Ms thus af in e-5 Ms with the excellent frequency for - 240 Mg. Decrees to the error of its own. Dec way, which is send in this source to researchest ecrow is reduced by the factor of the number of the expenses impled in the total paried as is shown in

. . . .

The appearance of synthic borsts, such as the alpha photos, bots spinite. These spinite, and signs spinite, as one of the well lowering spinomers in human steep (EC). These severices no conveniently severed as spinites, which detection of these severices are not bearingly wislest stillness that detection of these severices is slightly different one detailed matter of the severices is slightly different one

of these waveforms in that these waveforms must be defined sentinitie in terms of vertibous recognists by a company. The waveforms are however hearistically perceived by the reflecting all the verious seperts of the EES, here to be used in the detector design.

A solidie to a short horse of succe to consens then wavefore. These can be further broken from into the

A typical functional block diagram of the agintle detector

A spinole detestor consists of a linear phase run filter followed by a fell-wyele period discriminator, emplitude detector, positive-peak interest discriminator,

Appropriate signal parametrization in secessity the savest the effocts of high frequency notes and of legar-emplitude, size wave. Especially, if a sizeful is assembled as a large-amplitude, size wave. For the legaritation of a large-amplitude, size wave ference und impossible to deposit the appoints as the most detection. As Distance of the size of the size of the size of the size of principles of the size of the size of the size of the size of principles of the size of the size of the size of the size of size of the size of the

A supple expenditure in the subject to the effects of the format of signs of the format of signs of the format of signs of the subject of the



Fig. E.33. Supre-Solvelle Detector Parchipeal Black Diagram

spindle wavefers. The filters for each spindle ere numerical together with the filture for the other sewaters

The sound seemed through the conditioning filter to processed at the next detection unit with various criterie. the fractions of a wave to first defined on the Javeses of the full-cycle period which to measured by sounding the regative-peaks) and/or two positive-paint (or the frequency to different time that of the minusidal wave frequency mostly rederred to so a spectral connection of signal in the engineering or eclarating somes. However, the definition given here is better jumbified on more classic ministing (elembeting) the buten energy o, since the buren scoon necesses the frequency of a severiors by counties the number of peaks in a specified time window. In the most penaral name, the frequency is defined by a burns as the definition of frequency in teams of pure eigencodes were in

The full-rapid pero-classing points are direct detected by checking the edge change of the emajor. Then, each vers's positive-peak in Gaizand by the nation amagin value between the assurpmenting points. The positive-peak is described by the saved various positive emplitude and the

| 3 |
|----|
| |
| |
| 3 |
| |
| 3 |
| |
| |
| Ł |
| ŧ |
| è |
| |
| |
| Ε |
| 6 |
| 3 |
| |
| |
| Э. |
| |
| |
| |
| 9 |
| |
| 8 |
| ŝ. |
| |
| 5 |
| 8 |
| |
| 8 |
| |
| Ε |
| č |
| |
| |
| 5 |
| |
| |
| |

| Salla 2.2 | Tenta 2.2. Fillbart Table | | |
|-----------|----------------------------------|-----------|--|
| Street | Spelling Finchesist (1s) | M11 100 | FALTS TRADER NACTOR |
| 1 | 92 | E . | 18,01 + 0.2 + 13,024 + 24 + 110-1+11 |
| | 8 | 2 - 18 | Nation 1 (15" - 1)(12" + 8.08" 2 + 1)(2" - 1) |
| 1631 | 92 | 3 - 12 | HLO - LL ⁻⁴ - 33(e ⁻² + t ts ⁻¹ + 13(s ⁻² + 3) |
| W100 | 93 | or filler | "Me - G ⁻¹ - 31 |
| 53588 | 380 | 9 | 140 - 16" - 336" - 336" - 130" - 1316" - 13 |
| Terri | 611 | 0.0 | Hotel Profes of all the |
| MEDIC | 340 | 81 - 138 | No-re ¹ -3 |
| 8 | 643 | 10 - 13 | Mo - 16 ⁻¹ - 13 |
| 90.00 | 000 | | $u(s) = (s^{-2} + 1)^2 (s^{-2} + s^{-1} + 1) (s^{-1} + 1)$ |
| 5 | 99 | to filler | * N(s) - (s ⁻² + 1) |
| 100 | 971 | so mittee | * Mail + (4-2 + 1) |

unistion than displacement of the pack from the landing accordance in pack. The pack has been continuously assudances on the continuously as the continuously as the continuously as the continuously as the continuously wave to greater than a continuously as the continuously wave to greater than a continuously as the continuously as participating of the safficially are to be safficially as the convergencing period vindors for that taken with a season by under positive-pack and notice for that taken with a season of the positive-pack and notice for the continuously as of the conpositive-pack are delicity as the contraction of the con-

improved by including more measurements in the married to not auditatest for the spindle wave percentastry large-amplitude, slow EEO waves, as other noise effects. De the other head, a spindle's positive-peak interval distribution circs a vary good assence to minic the human interval is a measure of the ported between the provious uses's peak and the present uses's peak point; the interval is obtained by selling the two intervals, one between the wave's lending part-causing point and wave continuous Thus, if this positive-peek wave interval is out or openities range for a opinite, the gravious wave in discorded wore though it meets the sere-opposing paried and encillable outsetts.

Demonst. The way the option defects and alliance will be designed from the question of the process of the proce

The positive year introve extending to use imposes with the new-reasoning period spacetiments for a minimal registed detection, since the positive-year introversal interest since not impose any restriction on the week's vertical several positive year interest on the week's vertical several years of the vertical several years of the weather interest in the companion of the positive several positive years of the vertical several years of the several positive several years and the positive years of the vertical several years of the vertical se

others allows a topest specification for each period windpe allowing more variations to turns of each period specification. But, so the other hand, the echans reflects a tighter specification to tous of the galest specific shape smeaffication by using the law natural announces.

individual wave ported and modifieds variances in deterring the spindles. On the other hand, he relies sero on the bull-abased sicks) appearance of the whole waveform. The pattern exiterion and the eracopa packed window eve used to specify the siebal epindle waveform annualise (hurantam) notice. The overego period window in applied to the botal The nearage posted wholey increases the measurement accuracy by a factor equal to the number of veyer averaged as in discussed in the previous meeting. A tighter energy ported window is agalied for the specification of the smindle waveform, on the other head, the period windows for individual waves out became incomer to purious individual pattern criteria specify the total number of source test in a window, the minimum required nature of communities thehead wares in the severices of copet, and the minimum quoting of shows in Table 2.2: The flow chart of the saintle determore

Table 2.1. Supercised Specifications for SpinSle Hareday

| Croheria | wase period | wordow(fit) | Delicon. | amplitude Developed | | |
|-----------|-------------|--------------------|----------------|------------------------|---------|--|
| acressor. | 1630-0338 | postine postine | MUNION (SS) | 100 | CIDOTIA | |
| K2pha | 7,0 = 13.3 | 3 5 = 12 0 | 0.8 - 12,0 | 10 | 6/6/3 | |
| Reta | 15,0- 34 0 | 25.8- 300 | 20.8 - 30.9 | 2.0 | 4/1/3 | |
| | 11/0-17.1 | 21.0-17.1 | 11 45- 16,9 | 2-9 | 6/0/3 | |
| Telsi | 26- 20 | | 25- 50 | 20.8 | 4/4/5 | |

in shown in Fig. 2.14. This flow chart to explicat for all the spirals detectors with appropriate charges in the parameter values eccording to the criteric of mesh epicals detector.

Sagid Eye Hovement Estephin

The Edd wave in detected based on nebacative OLIMPORAL NATURE of SEE entirely during KEN scane, and the FOR were septitude and period window: the replacy rising FER were leading edge to used so a distinguishing fasture from other HED seven much as delts weres, and \$60 weres converging in the EDS channel. It is also necessary to observe the nature of ESG observate; suttivity during him sleep to eliminate dales MDs detertions council by the giosetistics appearing on the \$55 channel. In particular, the appearance on the EDG observed of large-negations ands, much as brownplexes or dalks seven in NESS sleep, any comes folio-MEN detertions. This dalay positive detection has been a problem in eccurate EDS were detection using extracted computer emelyace suthods [Ladia]. The MED Curios RDM share is twainnily represented by the appearance of meeti-septitude and high-frequency waves, no deliantias. berge-regilitude, slow worse, no colling provinces above giving a quist and first appearance from the SSS boostles.



veing both the descriptive EDI wave unitaria and the DIG channels' beckground accounting with the appropriately chosen time mindres. The description EDS were criteria include a slays threshold (550 uv/sec) on the leading edge, a period window (0.2 - 2.0 sep/helf-ware), and a much applicate threshold (30 er). Two quiescent besting time window are sealised, see such, to the central (Ch-Al) and to the frontal (FI-FT) showed Side on in obout in Fig. 2.15. The central channel time window to applied to the presenting and escopeding two mesends from the terminating edge seroexpended point of the SEN were. The friends shannel from window is applied to the preceding and succeeding one second from the teaminables edge serr-crossing spint of the sum were. The MEN were definition in therefore the fellowing,

- e Fertodi 0.2 2.0 san/halfin
- m. April (Profest 90 oce
- e Glope: 350 wykee
- · Quincous tes

Frental Channel. +-1 are window, peak

Devived channel: -- 2 see window, no delta were



Fig. 2.15. Time stimbes for CDs foolground Pattern Screening

A box-layered servating return in the Casities PER Carticular signature. Box Ther ware in Catacated at the DOCOR layer Namegh the Riter/datactic unit with the Gencifities wavefers oritaria, and the IRS simmary's background consumple is performed the upper layer the O.SS mocod ampling intervent. The fravillocal brains degree of the RES defination is shown to Fax 3.14.

The intelling select single is defined by the intelling selection of the s

To eliminate extensions effects swamed by the 600 binsiles consents in measuring the leading slope, a "Gent-unite" in first applied to the filterod eviper signal with an appropriate smantles of the Gent-unite level. One third of the minimum filt were peak threshold, 1.w. 20 pm, it



Fig. 2 16 SEM Detector Functional Block Blazes



Fig. 2.17 [Historicion of Boat-coming and Learning Singe Measure ASR Nave Scientism. (a) 555 (LT-62), (b) Scient from the Filter/Sciencesing Saft. waterome so we seen open town, not is proof noticed to the received file memory of the extension of first cleaned by the FDD installed movements. This inval is not take high per the purpose of an appropriate of an appara purposessable propriate of an apparatus of an apparatus of the extension of the effect of Citter conceiling its scenarios the effect of Citter conceiling its occasion of the effect of Citter conceiling its conceiling the effect of Citter conceiling its conceiling the effect of Citter conc

(Data) and the formed (sprt), both the neutral, densely and the formed (sprt) are as to have been considered and the formed (sprt) are as the first that the sprt of the sprt

It is observed that the frontell'S-F7) DSS elected above more FD1-rolated outse observed information than the central (CS-A2) HED channel. The dominant appearance of Sola on the frantii showed Spirit NSS likes 12 for assor-DOMINESSES with it so with GU-MI showed. Not 12 for all the important envelopes which one be utilized, Spiritor with DAS 2000 www depositors, for the purpose of manufactures of Communication of NSS winesp perform. It is this indicated that the important envelopes of products and interest that is the important envelopes of the interest of the interest of the Interest of the interest of NSS and in the interest of the i

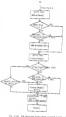
The Fig. 2.18 shows the flow shart for the first layer precessing of the more detailable. The Fig. 2.25 and 2.25 when the fire charts for the second layer processing of

blow Mys Microsoph Detection

The side eye exceeded (1870) cases the 500 chemosis, one could be a single eye of the country of the country







The models usego of the newsplass densire in the Present space in tending, to again that conclusions in the second section of the second section section of the second section section section of the second section section section of the second section s

Franklijk, krobenskiskild of Elik oof (E) & received this time (E). Chi man, errors the most of the desired this time (E). Chi man, errors the most of the desired (prediction) price (E). Chi, one fill), and the control of the contr

The more descriptive x-complemen detection colleges

III obbasele end the EOS chanzel, upwerd going characteristic, and singe extremion about be utilized for a better K-compless datestion.

Delta Mayo Detection and Nanaganan

where Calls - I want to the second se

The delta amplitude is quantized lete 19 levels from 14.7 we to 100 to with the 9.2 or resolution and the period is also quantized late 18 levels from 0.25 to 1.0 meters

Number Artifacts and their become

Number extitate is associated with the movement of lody. The eighti inselects of high frequency components within above 30 ML. The detector consists of a highpass filter, a securecountly detector, so empirical threshold (10 so), a full-upda period flerinizator (3.3] III Ra), as wereaps guards only, a 60 for conth filter, and a preter specification (47/3). The flow chort of the movelet stiffent flerinization (47/3). The flow chort of the moving stiffent flerinization (47/3). The first stiffent states as the shown in Eqs. 14.8, awayed for the splitting of 50 movelet filter. The 42 for south filter is operated in months filter. The 42 for south filter is operated in months filter. The surgest precise states. The purpose of this filter is to reduce the already of 85 merchanomics.

The DNE eigest empirical is described into three Levels, i.e., helps if ur, between 10 yr and 20 yr, est below 50 yr, and 50 yr, est below 50 yr. The DNE describents describes a sum on the municia actions detector but three different explicits.

DOWNER ON EXPERT ENGINE AND THEIR APPLICATIONS

To this chapter, command separate or targett systems are beingly professed with suplamentame on their Advantage baselines of the superior distribution of professes of the superior distribution of the superior distributi

Lights Agents (Marry)

Consideration of the special parties for him freedom Considerates referred to the application-considerate settlement Considerates (Considerate Considerate). This was of Considerate (Considerate Considerate C called, finally one constrainty primary, the primary of a constraint of the constrainty o

In Adoption with Alphille-Sand empirer program
of the conventions approxish, the honorized-should appear
provides a proper process of the process of the conventions of the
Police Sand of the set derivers and the process of the set process
of the set of the set process of the set process of the set process
of the set of the set process of the set process
of the set process of the set process of the set process
of the set process of the set process of the set process
of the set process of the set process of the set process
of the set process of the set process of the set process
of the set process of the set process of the set process
of the set process of the set process

Ramon, pask menting, militat integration, mentings integrated and exception of military statistics amount of military statistics amount of military statistics amount of military statistics and military statistics, and military statistics, and military statistics, and military statistics of military statistics, and military statistics of military statistics and military statistics, and

Expert system or a loss desideration by Illinous Exposer or come to the about the expert of the about the expert of the about the expert of th

a broadedow-home editor. The postural membersian can also be is a user interface for the manipulation of the powerall system, providing a firsting and transpersed controlled for the user: Without mry sodification of program, a past can ecoses and shange the system Naswledge through the expeditity to explain the line of reseasing for a conclusion through the knowledge-base editor.

Expet system such increases we vising demantic on these explications. The excrete transport and excitate transport of expets produces not strong of expets systems on the existency small manufact of excits speed sources of expets systems and expets systems of expets systems and expets systems and expets systems are supported by the expets of expets system and expets systems are supported by the expets of expets and expets system and expets and expets system and expets and expets system and expets and e

diseasetcomitty of data or browledge (e.g. time, space), lack of filend indecembs process to only the problem affectively. bending of interestions enong decisions of emparate representations, and immediatement of data. A discustanced (Medite) are second the several advanced factorious to sever (andmisse) of other new practic closure, thus the classes from expedien a conclus representation of useful relations. and supports a continu definition-by-specialization technique that is easy for most donain expects to you. In eddition, this representation etrorize provides submertic inferences as port of sech ascertion and retrieval operation. The temporatic relationships money frames analta descriptive information to be aboved among valuable frames vis tobaritons. The interest assumeture of fraces analisa on symmetic solutioners of meaning integrity constraints relationships assess objects: making representations are

CONSTRUCTED by Likeprating frome and proposition was TETETRESCRIPTION. "Fractioning for CONSILIZATION OF SCHOOLSTONE OF CONSILIZATION OF SCHOOLSTONE OF SCHOOLSTONE OF SCHOOLSTONE STATEMENT OF SCHOOLSTONE OF Objects of Consilization of Schoolstone Objects of Schoolstone Justice Justice Justice Justice Justice Justice Justice Justice

The blackboard model of problem exprise is a blobin strumbured special ones of opportunistic possion solving [8a75]. In eddition to opportunistic resonance on a Receivings-application strategy, the bleshiourd model prescribes the organization of the domain boundaries, and naire the problem. The exception space to organized large one or ware egglication-dependent hisrarchies. The domain browledge that transfers information on one level of the knowledge modelso serious the transformation value ertsel or hypothetical transferentians. Essenting is explied within this owers; aspectantics of the existing opers and task-specific knowledge. In other wards, the module of incurancy to apply in determined dynamically, one step of a time, resulting in the decremental generation of partial Bolutions. At each step of the knowledge explication, althou darward-or bedward-resoning esthols one be applied.

Application Exemples And Paters Prospects

Find Scotlery Emperies

One of the applications of second norther technology to in the building of medical occasioning systems designed on (5076), Decemb (6075b), and Internate (FoTs PoTT) and assess the exemples of early expert fruitnes mustiv often referred to an typical sepert system applications. The Sycia conten was developed to previde consultative sérios on dispussion and Photocy for Inductious discusses. The system is in a form of a production rale based system and the assurance and incomplateness of data and knowledge are handled by the Certainty Factor echans. Council is a computer system for matters discussed to the treatment of piecosts. The contact by determining the wattern of pathogapatological council with a disease estagoty: intermint in a name of the program

as the domain of internal medicine. Using the intermeter presented during the consultation, the program frice to discretizate between competing disease hypothesis. These, this appear is of the type that validies a hypothesis formation using the opener's mortage regionsoried in the form of a follows two. or disease represents

The application of expect option in commission of inlitation is provided in the commission of the co

Misterically, stillsioni manipuls and pattern respection, howeaph a discriminary function bread of an Approxim delition theory; how been and for the development of computer manipuls of medical Linguistic problems—The appeal of the neutrinistical method is that the decision tomes on each methods are applied for given criterial. Source; the deturnined approach is sensitiable in nections problem, because of vertices ensurptions and simplifications much as independence and mukes) well-introduces of residence discuss status. These assumptions ensure to suitably validated and the e-pictus and emoditional probabilities required in the mutation of the surface as emolitors are probabilities.

The medical desision tool is a typical example of a beccisito desisi which (sciudes a limps associate desision execution medical Newtoniese and physiciase' hazard immediage official Modely years of proction and experience with many medical Modely years of proction and experience with many medical Lower, the physicians provides a displayment hazard on the Auditivité Newtoniese for healting Linearjetté Austinées for healting Linearjetté Austinées for healting Linearjetté dats and weverait préparation.

One of the difficulties to designing a massive constituting expect suits a broad supprising supprising particulars in that the bases expected cross fine the quantitative beamed and basis a single supprise of equation count. In this spectrum, of a law beamed (appri, one or particular than the supprise of the spectrum of the particular than the supprise of the spectrum of the particular than the supprise of the spectrum of the spectrum of spectrum of the spectrum of the spectrum of the spectrum of the communities thought for forests in its entire and in a community way districts or extinctive and containing and particular spectrum of the spectrum of the supprise that the spectrum of the spectrum The development of constitute localization of projects rate being officialize localization of projects and being officialize localization projects of the special projects of projects of projects of projects of security that the localization of the special projects of special pr

Several sepret epotications have been about once in its domain of chemistry and other engineering and entering and enterin

bendret (mail, bendre) processes pleasable estruturate representations of emplace sociation until also estimated from allower personal processes and the control and state est of robes used by an expert chesists to inder controlled and of robes used by an expert chesists to inder controlled on indexes estimates from such date. The electrication of nationalises extractions in announcement to the especiations of chancium hardwards to impresent grounds in history and themsion hardwards of the present engineering chancions. In experiment processes of chancions are considered to the chance of chancions are considered to the chance of chancions are considered to considered the chance of chancions are considered to chancions are chancions are considered to chancions are chancions are chancions and chancions are chancions chancions chancions tendepose of forcy oppositions consequently the excistor enalysis may not be applicated consequently the energial powers in each too lengthcos and depoisses on the indeposition of observat. That, there exists a legislate examinate descripting a compact radial square system. For a elgisificant contribution of the computer when for a elgisificant contribution of the computer

In this type of notabilizationables electrics or described improved symptomic density, the experiment expect is a hearlist's exercise in little for exchanged an expectation of all the possible attractives mendiotres. Surveys, the present of making up a set of rules obsta mes-specification proves to be such too immissed, after the thoray of name spectrometry in Discoplate and the rules that it was immediated and difficult for supervise templocations.

presently for less the test of a least septem. This content is not content to the content of the least to the content of the c

Prospector in a comparational monitories specially as extension approach (CPP), 80(2)). Read Feature of the extension object of the second control of the extension of the exten

MANDES SPACES SECTIONALLY SPACE SPAC

prophetogical modeling.

Limitations and Pulses Prosperts

Digit besides omnitive of the Selections of the Selection Selection of the Selection Selection of the Selection Selection of the Selection of the Selection Selection of the Selection Selection of the Selection Selection of the Selection Selecti

But of the current spaces system its basis in a limit of the current spaces system in blanch and blanching collisions. In the current spaces of the current spaces. The current spaces of the current spaces of the current spaces of the current spaces. The current spaces of the current spaces of the current spaces of the current spaces of the current spaces. The current spaces of the current spaces.

processes are couldniberizes to overcome the initialise of the current application-oriented A.J. technology in achieving a maddime Lataliagence competative with a human expert's Lend of puricemence.

expect wanter opposition are enemyly oritizized to the book low N.A. Sports and S.E. Swepton (Swid). It obvious than an is impossible to minimum a computer system which can show homes expert large performance incorporating homes aspects like precesses. This opinion is appealing considering that the fundamental questions relead reporting the buses importunity, expert laws performence in related to our homen supers's republicity for assendering large numbers of special cases impluding conscious anythogo obtained through anny years of experience and education. If the crucies say to obtaining the horse expert-like performance is in the modification of this hope smouth of heuristic knowledge, there extets a fundamental berrier to three epposes. The heuristic knowledge is inherently difficult to codify two the system, and the separt of hermicales cently exceeds the managemble proper of a computer. They sion will out that must of the outselvier reports remarking

from profits applications. A system's NIAD performance, if my. Is set the a secondo inclusions and A.I., but to the computer's ablest superior reports our fears height obsciling data-intensive or colculation-linearies persons of the Inclusion. What is reconsistent in the intermetic and the inclusion, has been reconsistent when no other systems ever activated ourse strongline them have active systems ever activated ourse strongline them have active spatiently computes mentioned shows. Deputys of efficiently included the second second of the content of the second second of the content of the second second

Enveror, there is undertunately very little that con-Neurotatio problems by a computer with a honos-like level of performance and intelligence, that is not communic vegue and hand-westing. It is some restricted to ecoupy the A.T. and expect system approach so a new way to naive different espects of a position in which commentered approaches service offer a cultuale emistion. Imlantion of an appropriate downing them, will be a algorithment trough in memorator applications of the expert system approach. Considering the more responded to select a docate such that the expect evenue approach one give a constraintery contribution to salwing the bearietie pertion of the whole test. The whole tion will involves amplications of conventional englanaries or computer technologies end/or requires computer's experies calculating power to handle a fair number of data-interview

and colespicitor-fatoustup politica of the twelve. The profile doubte with reads to be activated by relating form considerations become of succession in the Conspication Load the system one that it also continued to the compaction compact the Compact. It is a time where to overlook the produces (if a wildstook from the denset professionals in a consideration form. It is different to be compact of the denset professionals whence of the colline, continue, continued, and other complication from the members of the colleges; and other complication from the members of the

District IV

Sleep 680 Analyzing tomain And The Empire Considerations

Sleep 550 Analyzing 200al

Here ineg ERCONSTANCIA das se energed yn hann mere through the stand procedule and deterpretation of the multi-channel data on a pappyregh educt. This process is been interpreted as plinestly a partners establing and determination of topological procedule disordegs in the data from all topological procedules disordegs in the data from all topological power and sizes a supplementation and topological power and the consequence of the sizes data subject, these, follows as supplementadents company of make interpretation by disabilitieshing.

The opport classifies a separate of the resemble of the second content of the con

Nose of the patterns and templates do not readily mater in a fixed and definible down, since such ampaint of

the assess when he interpreted in a difference sense assessment by the individual subjective eigenstances, assessment to the individual subjective eigenstances, convex adjoined spool patterns, and there characteristics, convext adjoined spool patterns, and the finite patterns are subject to the patterns of the patter

In 1969, Emphishedien and Holen created a set of along steps according switerin that provide a menderd reference for class sings ecoring enoug casasshare [fields]. A brief commany of these extends in India Soline.

STADA MARA (IMayo D.): This Haips interespond to Date without this is in interesticated by sights entirity and/or a low validate, and interesponding this. Certain talysis any size of the size of the

Steps 1: This steps to defined by a Talettesty low voltage, sized frequency ESS with a notificable that a activity. Steps I conver most often in the transition from waterfulness to the other sizes nieges or following body monament where design in morth signification. Dating assistant strain, Right 1 bear for motificity four its requirement of the strain of the s

Edge 2: This mean is defined by the presence of signs updates and/or tocopylane and we observe all efficient data weighty to define the presence of tops 2 efficient data weighty to define the presence of tops 2 efficiently was the requirements or tops 2 intervent whomen too spoke of tops 2; these determinal popular are to a smooth tops 2. If there has relegated as it were created as presenced indicates in wester time during the CONTROL in resident

Stage 3: Stage 3 de delined by an EEO record in which at least 30 % bad not more than 50 % of the aposh seemints of dalks actions.

3 Tage 4 | Singe 4 in defined by an EEE second in which Make then 50 % of the epoin scholate of delte methyly; Dobrvals between data were revely persist for mare then a few seconds 32 Singe 4, but was usually presented to step 2 spoods. Hipse spindles may be may not be present in Stage

Step EDS. Step EDS is defined by the COMMONICAL Specimen of Science [see views, read frequency specimens of Science [see view for the property of extinting and applicate EDSs. The 200 pattern remedies the one described ED Figs], a cauge bits vertex stary waves are not precised in Sings EDS. Alpha extinct in Sings 1. As well the EDS of Sings III there is no exclude Sings 1. As well the EDS of Sings III there is no exclude Sings and states upolities and F-manylates. Sings EDS should into the second (in the precise of a relatively) always as

Desc criticis forces the particis of real along when in terms of the control of criticis of apacific very first in the control of criticis of apacific very first in the control of criticis of apacific very first in the control of criticis of of criticis. First the criticis of criticis. First the criticis of criticis of criticis of criticis of criticis. The criticis of criticis.

a general goods for siney steps receipt and tracting of hames entern. The solutal siney plays account to personal by fenceporation much most heuristic soundings for the centerous interpretation. The solutal SSS data presenting is been on a postact paragition of version extincts for been on a postact paragition of version extinities to continue the solutions of the proof of the proof of in our tense on a preside and enabytic resourcement of the

Dealgh Considerable

Investi design maniformitian ind developing as quarti speins for the uniterate along magniforming signal maniforming and the control of the

Outs, espect system (engin is limited to a fixboundary regressionies and inferencing methods to fixboundary regressionies and inference projections in the medical double, deserted representations double, and other optionating or moiestics systematic double, medical confidence or moiestics systematic double [Bells, Bells, Dell], which provides a very efficient unit 3-f-thm [position rules provide a very efficient unit.

represent for Appriledge in the small continu domains where judgemental knowledge constitutes a major portion of the expert downly knowledge (Bulls, Balls). Searchic natures and frem based knowledge representation [F185] poortide a more etrictured way of representing Ampeledge when the demain knowledge includes supeleticated interrelationships or Mercanthical dependencies omong diverse subjects of the knowledge. Most of the current information multipleionies ere based on a data-driven forcerd chaining scheme, a cont-driven between chaining achiev, or other reportunistic methods (Na'N, MLSS) which combine the two heats echanes wyntem development tomis have been also developed to provide Descripting these bests imputedon representations and SPHILL ROLL, REE. RLL, AGE, who., [MARS]. Newwork, most of these reedily available tools byles restriction Flexibilities in system design; thus, applications of those application doubles. In general, the development of an expert eyeten can not tatelly depend on any of the previously developed dualga methodological it needs to be netures and cometizes by amploying new representation

In designing as expert system, several complications most typical problems which questly affect the design and epolicebility of the eveter. A domain's horsining to heterosuseous when it consists of several different subtasks howers in taxes of depth and finement of knowledge. The interniat system demonstrates a good example of the In the domain's browledge (2077). The Daywells system slap commutation because discretty rotated to the wide range of depth and finemen of the domain's housings (Smill). The knowledge discretty 50, 21 most cares, handled by the time of partitioning of knowledge courses, hierarchical construction of the domain knowledge, or a combined scheme of these. The partitioning of the domain bipoledus in commodified in the following systems: Internist, Eucorel (LURD), Concet (McPAD), and Pumpertor (5077). The numbers Coverile, Henry (ECROS), and Connet are cause of headling spantemention of the damain knowledge. Recently, those conseque here been more personalized and referred to an era Blackbeerd etructure (mail, Settle, Midd) where all levels of Moreladge sources and that's temperary populse his observe and ere used as a global data etrusture for industring a The size (60 output) doubt move the patter of breeding directly will be sensitived with the selected of different processing layers when the human scoper's endaging process is solaried in an expert system. Solar processing layer is assumated with a different processing time-frees and with a different by of I processing broading. This independ blesworky of the domain monitoring making for designing the system in a topyrod blackdown making to design the system in the system of the domain monitoring making for designing the system in a topyrod blackdown making to the system of the system of

The side) EUM malgingly precess is Books does got them different legent of historyly, proposition of wwwfers activities at the bester level tompton amounts of more against a cleantied secondary to the precessing discussion in department of the processing. This improvement is not been precessed to the processing. This improvement is not been precessed to the state of processing. This improvement is not been precessed to the processing of the processing the discussion of the processing the processi

 Competition of data willing a servation longship of reserved to service using the constant of means all process processes. The entire of the control of the control of the control of the reference of the control of the control of the control of the reference of the control of the reserved reserved to control that control of the spitiation decision, where a multipase posture mixture and the control of the control of the control of the control of the spitiation of the control of the control of the control of the control of the spitiation of the control of the control of the control of the spitiation of the control of the control of the control of the spitiation of the control of the control of the control of the spitiation of the control of the control of the control of the spitiation of the control of the c

set of solutions for the problem is obtained.

The species recognizes and colors the third of fooders of concentrations of the control section of the control sec

Non-minimal by the Norm SHORM. Diversify the Section of the Sectio

DOD feered septemt (versily 30 or 60 mercical in classified date on of all xitypis and on the programical control of the topol using the territor methody finan-Leftmentals in the spoch using the territor methody finantical control of the institution of the district size in a season of territor. The efficiency of the information produce a clearly principle (the master of provider adultion. If the states) principle (the master of provider adultion is the interpretation of the master of provider adultion of the states) and the states of the

data-driven wise-generate-took solone (Doddo, Haddo) to used efficiently as shown in Dendral and Crystalls systems. De disposein. Thus, on exhaustive enamed by abboughing all the exhaustive search based on the goal-driven backward chaining independent. The since \$27 donain also has a finite out of past hypotheses and an exhausties search school on by informating. However, as enthalast time-performance of the eyeter. Thus, a dynamic extensions of secretion economics is devised as a actions to Express responding afficilency using in the bindshould blevereby the dynamic rescheduling of weerch requesces to much affertive to improving researches officiency when it to applied to a higher level knowledge imovings, on the other hand, reduces the efficiency of the creexit system, becomes the grouph noise nice to constrain mich larger for the lower lovel knowledge.

At the top lavel, the turns secret's comming preserve to modeled with a militing window impleded in the events.

a contest of the seltiple specks. The sliding window for the high level context interpretation. Fire consequence levels constitute the high level electracted information of the alleten window. These data reflect most of the content classification of sook speek. Each spech's stage elemenification, which to first derived at the intermediate level by the testiate nationing and classification boundaries. een be re-equalized in a baceder contact provided by the sliding window: The window slides spool-by-spech representing a scanning precedure similar to that of the howen scorer. This sidding window constitutes the highest level information piece of the blackboard and envelops a

distinctive electoral feature regulting with an improvement Incompleteness and uncertainty of date, and the last of information and browledge are independ problems to asseexplication deserte. Appropriate representation and difficult protoses (Ooks). Most of the sethods devalued to dete efty on tone tehnique und empirical breatment and membranic patient making utthat a parametrical are a non-productival sports (2007, 40%, 2007). These solutions was designed with on empirical no end-resists is antimizing a marketic level (of performance). A systematic management of the numericality produce is exist emphasized in designing the models. On the other bands, they have a formerical beams end contribute next marketing, counting interfaces are eff contributed next that the production of country in particular that application of the models are neverty approach.

a Tomocomic groundwark for the treatment of knowledges, but the assumption of the salialseeme and the replacement of thereup's print! knowledge make it con-realistic for easy applications.

In spital spitals, the Controlled Profession (F) reducts in description of medicine the medicine them do not incomplish framework of controlled and controlled reduction of controlled reduction of the controlled reduction of th

compa a time of monitoration and discontinuation of an apprecia "Dist behinder in set many), no since the monitoration (probabilities relater) polymerates intensity, and the second probabilities relater polymerates of larger polymerates and the second polymerates of the second polymerates of the second polymerates and the second polymerates of the second fit to endoptation seeks and the second of the second interest to the second polymerates and the second polymerates and the second polymerates and the second polymerates and the terminates and the second polymerates and the second polymerates and the second polymerates and the second polymerates and the terminates and the second polymerates and the second polymera

Limitation of the Application of Studies have been distributed on the Application of Studies of and Application of Application

TO This research, a new under it designed for the economic of uncertainty and Stotopictomess. The sheet of designee with a propositic research to oversions serveral statisticalities of the price excitative factor modes assume experienc conditional probability belower people which appear when these modes are GINCIDY applied to the EGS enviyon design.

This was conservatively modeling model and Linguistics (Linux, 1989). The Same District (No. 1011). Indirect (No.

Time is between 30 and 30 second, and i if the univoky time is between 35 and 30 seconds. These limplatic variation presconding reflect the house expert's belief level 3s o metural way and provide a commonwhile method of handling

ethers and the discrete certainly variables provide a kind ed sinor variations of partstaty taxabs. In this orders, the sectable level of an essention changes only when the combined level of purfacence in multiple process a corner level. This combining ochons and the Limputetic variables

thing

The burn score; a sleep NEO energies is repected as

specetion of the new wecertainty handling model does not separt's quotelt scenning results in a better perference the experiently and effortency of an expert some from the robustness of the expect's knewledge for leterorythms as

102

medien And Dantamarkson

Punctional Description of the Ownerll System

The NAMES ANALYS AREA OF ANALYSES OF ANALYSES OF ANALYSES OF THE OWNER OF ANALYSES OF THE OWNER OWNER OWNER OF THE OWNER OWNER

The data bias unmainte of two perts, a statio data here and a dynamic fatt bens. The statio data here contains the night's cheem fets recorded from the early-processing system. The dynamic data been contains those layers of responsing for Spinan, in a Nymberder foots continuation, which are opetimizedly updated during the system spoch-size

The blookings how consists of three CLEarunt Legers of bookings which are such associated with a concesponding data places on the thockbased. The betwee Legers are a pacessized feature extraction bookings at the beston lesso, template metalogs and classification bookings at the meta-



lavel, and contented teterpretation invariants at the top lavel of the housedge term. The biologodge is represented in 16-then production value affectively restorting most of the domain knowledge.

composed of rule-interpreters and a sebedular, in to derive searching officiency of the system. Septementions about the adortification codes, which can be used after the system has

The expert system forelognent Indiana the momentum of a capital system shall with a houstage-tum satisface. The house-dogs tum states of the monoisty tum states and modification of the knowledge tums without any modification of the program by the weer. The knowledge-tums office which is clearly fraison to the houselong representation

uthems and the opsime's indementing mechanics, is designed considering the firstbility for future extension or modification of the opsime so is desiribed in the rest mechan. A memorphism uner-friendly intention is designed

Management of Management and the same of

The option's bookings into 22 introduced is the present of training districts discussed in the present of training districts discussed in the option of the option option of the option of the option of the option option option option option option option

The donain knowledge is affectively represented by if-them production rules, since most of the donain knowledge is in the form of judgemental knowledge — sinch level

| Contest Level E.C. |
|--|
| D CONTRACTORS INTERPRETATION |
| |
| Speck Level E.S. |
| o sere-ectivity descriptors passivities rules # elementification rules |
| |
| Parametric Level E.L. |
| o grocedures to outreet phisesters o queries for user land |
| |

Electronic Envised From Electronic Fig. 4.1. The Electronic Fig. 4.1. The Electronic Fig. 1.1. Services of the System

Xabiledge is associated with a corresponding ruleinterpreter (interese engise). The scheduler globally erranges the rule-interpretates.

bleshourd are illustrated in Fig. 4.2. The parametric date from the user and from the multishance; record. The within an escal, waveform detection reliability fraction of near imput data like see, age, record number, and data. Done sermentar values constitute the beaton level of the Management. Asserts proceedings from the passengers feature securance parameters, such as elpha-time, beta-time, elpaycongresse in on epoch to nextgood Sepather with the servence detection reliestify forter. The early-properties branciaries have sed can be modified through the businesseshose editor. The query parameters, such no habitest-statuknowledge of subject dependent characteristics. These

FLASE.

WHOSE-W-ACTIFITY SIRES-W-ACTIFITY SIRES-ACTIVITY SIRES-ACTIVITY

Fig. 4.4. An Except Link of New-artivity Decisions

which can always be solitified Winough the semi-indigations that shading, such indirects in defense to the bundling tease that a manual write man as associated continuing teams. Release the spaces serves approximately teams, release extra miles, the spaces designed to defend the extra miles, and the spaces designed to defend the office of the spaces of the spaces of the spaces. But, the spaces will be a temperature of the temperature of the spaces of the spaces of the spaces. But, these volumes are gained to the spaces of the bandsing of presentable, the spaces man actional may fertime years' for presentable.

Appert prisons of busyless androgy for the construction of what proof in page. Deplete are now of which provides are not one of which provides are not to the construction benefits and are notified to the form of a production loss includes the page of the construction of several wave entirely description representations of several wave entirely description against a fraging of the construction of several wave entirely description and are required as the several entirely description the resolution of the construction of the construction of the construction and several production of the latter later. A model 11st of waverenesses enables price and literature and engage and the page of the latter later.

A rule consists of a rule identification order a precion, as action, as outbor, a data, and a pustification. The value are stored integrably in a Lies code and account

Destification: If an appeal is described as both sedies APPR-SETTYPY and sedies ARCHAL-ACTIVITY, then the search

DE-): 5-64 Pressue. ((OT MINUTE SO)|MOV MEM 60W)|MD SIMEP-W-ACTIVI Actions (1998) Estar (6 5) 1500)

Partification; If an open atter or manage two taggings of the record shows MEN, Low MLESP-W-ACTIFITY. Fig. 4 S. Remples of Sales for Classification.

of the believes properties.

- - - constitute the operator set.

 3) ACTION A List is the door of (parameter we)en
 dertwintp-feature) or a list containing more blan
- ASTRORY A list containing the ness of the eather.
 - 5) BARY A list in a form of (mosth data year)
 - FISTIFICATION. A line contenting as English WEREON of the translation to be used in the
- The top lovel browledge course Instalms contextual membrantion rules for the re-reminetion of an appears stop classification and exemt requests attendating rules. The rules was the contextual indomestics in the alining
- The aliding window contains the information of five commenciate spocks to seriest a local context information in the second: this information contains spock along singer, distinct with the intermediate level templet national Accordage source, and escolated carriably levels of the

exact stayes.

process of metables the stiding window with a not of templates in the form of LF-then production rules contained spech. The process of retaining to brief sequentially with the sat of templotes from the first one to the last one. Whosever a tempieto metches with the aliding window, the window to undertail by the rain and the process of retailment when there are no more raise value metch with the window. The #15diaw window with them eithe one woods sentitive and wereive a new appetr's obsentitioning stage and a certainty contestual manipulation rule to less than five specie, the familestently from the eldent spoch to the much recent epoch) continuously updellay the oliding window whenever a retolics seems. This process cooled armin 17 any matching secure in the past syste and stops if an embedding course in the part option: This higher term; contextual interceptation capability to especially counted for a donate like sines \$700 enetypic where human experts also perform a 140 of re-manifortize is a correct of sweare edjeant appele' inferentiae. The inherest nature of wide variabilities namedated with the miner EEO characteristics adds to the sequipment of the contentual medigalation of the data.

Anteleise. Arcording to the sustant information reflected In a stilling window, a researcing path day the meet apoch to reschaduled in the order of the liberthood of each textional show a running attent of stage two, the most liber stage our the need search is also atoms two and the rest flow stooms are further arranged in the order of their likelihood, m.d., steps three, one, save, sere, and four. The substitute to window against the autoducing raise in the contest level Anaeledge source. The achedalley in performed at the end of every epoch's processing. The metabling is tried scheduling rate estables with the winow. The new search puth scheduling process. This respecting sectionies feature to Collimitate different from the accounting method used in the Myslor-like medicine consulting programs. In Fig. 4.6, an exemple of a sliding window in Climitated together with a Contextual amounting rule and a scheduling rule.

the top lovel knowledge here in described by four global veriables. These veriables allow as source to all of the mentalesed broadledge. Those veriables are an follows.

- COMAIN The value of this variable is a phonon which describes the knowledge bees contained in the system. Twis phonon in displayed statement
- 2) COMMUNIC, TANK VALIDARS AS A SHE OF STORM, NO "Live" and "Name" Tanks to the regions of Engl proposeded Scotlages, Addit and the Second of the proposeded Scotlages, Addit and the Science of the MARKETS, The Scotlages of the Science of the MARKETS, The Scotlages of the Science of the MARKETS, THE SCOTLAGE OF THE SCOTLAGE OF THE SCHOOL CONTRACT OF THE SCHOOL OF THE SCHOOL SCHOOL CONTRACT OF THE SCHOOL OF THE SCHOOL
- 3) PAROSCOPE: This is a list of alone where ear

| ACHOON | MINOW-339 | 8-1 | 8-2 | 4-2 | 4-2 | 4-3 |
|-------------|----------------|-----|-----|-----|-----|-----|
| | CENTALWIY-1933 | × | - | | - | , |
| Doorh Ties- | from | | _ | 60 | _ | _ |

kne-i - c-12

Action) (SINGOW (s-4 E N-4 E s-4 E N-1 E N

Take (17.39b), Justification-II three SINGE 2 specks which have an ambiguity, equivalently the lowest certainty lavel, indexpose between too CIESC INDEX 6 specks, then the indexpose between too CIESC INDEX 6 specks, then the indexposing spools see assembled into STAGE 6 with the lowest certainty lavel.

Promise (22

Promise: [32 823000 (* * * * * * * * * 4 - 4-1 *]
ACTION. (FAME SEX CRANS)
Debm: (9 7 1000)

OMELLINGSTON. If the stanp stape of the inst speck in cusming unidow is e-2, then the merching path for the peak hypotheses in in the order of stape 2, 3, 1, 5, 0 and 4.

19. 4.8 As Exemple of a Farming Window (top), CONTENTIAL Namipulation File (middle), and Namesburg Role (bottom). permature. Also here, the knowledge-per editor allow the over to enter note that or permeter group.

 All-Sectors: A list of stons shows mask stome in the name of a group of secondarial rules. The Entering shows editor couple the definition of more lists one such assessment.

A context to described by the following com-

 TEAMS: A text containing an English phese describing what problem the option is attempting

 DISPATIMENTS A List devision on introductory phone which to displayed directly below the value of SOMAIN wholever the system etects to

3) TETTS: This is on whom which has no lie walso the est of mines of text lists which are

the est of names of tent lints which are associated with the contant.

1 PARTI This is no stop which has so the value the est of cames of parameters especiated with

the scatter a list containing the date on which the context is sewated. But list is of the form (A B C) where A represents the scatt, i

- This date is also weed as a default data for the
- 6) ANTHON: This is a list containing the full name of the creator of the context; this author name is also week no a defealt withor name during this limention or edition.
- 60Add: A list of parameters for which the system in trying to find value. In this system, one man improved entet, 5-s., 2200.
- A parameter consists of the following properties.
- is a translation for the parameter: This is
- MEG-TRANS: A liet containing an English phenon which is a Tonnalation for this personner out being present. This property is excepted only
- PROOFE, A list containing an English phrace which is used to sok for a value for this neroscopy.
- 4) OBSERVERISTS As also which is either T or NIL. IN identifies benefite this parameter has to be read from the deep been at the bottom Layer when it is needed [MDI] or whether the sprine about anneal first for a rule that was decring [2] [T].
- 51 TYPERMORE he show which opecation the type of

4) ESPECTA A Lint o

property to consolited with parameters which have TYPEFALSE of ANT Only. Not all the property worses about he secondated with such parameter. Exemples of parameters are object.

A test is a list of words which is associated with SSAL persector. The test has a single property solid test which is a list of Knglish words that is Cispleyed if the

executed the second second

Community, in a Machinery modeling approach, each foregrounder immunicate entered with a different execution to impressivation without approach to its education testing to its education properties. Since not of the DDD desire intensing color actions to action the proposed ID in the original color actions to action the color of the DDD desire in the STORY of the STORY

The parametric feeture extremiton kontrole as the hottom level includes the promedyness which receive laws query lapses and extract primates free whose dots on the described between the wear query toputs are sequired into the extra copy at the hespitaley of the system at an older a sizad-visor transity of the experts without any Personal Pages ANCI-NACTITY TO A STATE OF THE STATE OF THE STATE AND TELEFORETH THE STATE OF THE

TYPKULER, ASP MEPROT (BROW NOW LOW NOW) PERSONNER VANNO, SLEEP-W-BETTYTY TRANS) THE TYPKET CONTROL DES NOTIFICIAN Of the opening ASP AND THE CONTROL FOR A STATE OF THE OPENING OPENING OPENING OF TH

NEW-TRANS NIL PROPET MARK is the lovel of STAGE 2 veloted as analysise of the speak 3 STAGES AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT OF THE PROPERTY OF THE PROPERTY AND ASSESSMENT ASSESSMENT AND ASSESSMENT ASSESSMENT AND ASSESSMENT ASSE

DARCE: INDOM: NO

Fig. 4-7. The Example Property Lists for the Parameters of MREC-M-ACTIVITY and ELECT-M-ACTIVITY. The FRENCHING author for the internalists level template existing at peni-driven bedween chaining achieves the listen number of goal hypochemes, i.e., sleep stepse, make it werry efficient to apply a goal-driven bedween remaining inferencing potent. It is inglemented with the

- The system initially identifies the goal personner STATE on a goal for which it is
- The system first reads the hypothesis sequence from the hypothesis Liet.
 - The system than starts to verify those hypotheses sequentially, and it steps when too
- of the past happeness is verified,
 see the past happeness, which is desirable the
 past happeness, the system force exercise in
 past happeness, the system force exercise in
 past newstring with the derivate force. As
 places newstring with the derivate force. In
 places newstring with the derivate force.
 I.v., important passesser within, consisting or
 principles of a part of a part passes.
 A past in one force inter in a line in a force of
 past in one force inter in a line in a force of
 past in the past of a part of a past of a past
 past of the past of the past of
 past in the past of the past of the past
 interest the system of the said in the force
 past interest the day system of the said in the
 past that the past of the past of the said in the interest
 interest.

COSPRESSED proposity of the parameter of the hypothesis is T of NIL. If is is NIL, the system yould the value from the bettem layer date given and storms the value is the feet liet. If the CONTRESSET value is I then the

- 5 To derive a Expellence from other rules, To watter first options all the experient rules which means the hypothasis as the methap grant of the rule. The mystem time first wider to water the hypothasis. If you think to accomweemeds to verify that hypothesis, than the water than the company of the company of containing making the desired with the containing making and in section with the
- Step 4 and 5 are reported recognizing as easy times on model.
- 7. Finally the system reports one of the postberphisman is varified with an associated extensive less of the open objects. In the system fails to varify any of the goal Appetiment on the list. It consists the departs hypothesis on the list. It consists the departs.

the rule interpreter octage of the highest level Montedge erarce in the form of data-dairen template naturally solute on it described before. The large number of patterns in a window makes if infectile to apply a goal-friven bediscol summaning acques.

data stores in the blackbooks. In Fig. 4.5, the oversity loging sequence of the scheduler is illustrated. The ectedular trippers the rele intergretors in a strict with sevedors occurrence permeters. The sliding window to else updated by sliding one spoch. Then it triggers the rate interpreter of the intermediate level template entology browledge. The rule interpretar measures the rescoring in a of raise and information on the come or other level of the confusions and intermediate results are stored in the dwamer data hase. Wer derived girel constructed in atlant In the slifting window for the next level processing. The exhedular briggers the contaminal excepting value and magnit esquence scheduling roles. Flankly, the echedular telement the separt at the end of the speek processing-



Fig. 4.8. The Lemping Sequence of the Establish.

Secretary with Decembers

A full bright less enter generate the special part of the processing the same of the special part of the processing the same of the special part of the processing the same open of the processing the same of the special part of the process of the special part of the process of the special part of the speci

It we system, the lates of informersym in data and form and the water content of a related point such as a law continuous level in revenue (and such as a law continuous level in water). It would not be a continuous data and a content of a

The certainty faster model of the steep EEG enalyzing expect system includes the linguistic veriation, i.e., high, Hediax, and Low. These represent the certainty level of a piece of knowledge and a corresponding weight value is associated with each veriable or is about in Fig. 4.5

| Districtly Versions | Weight Value |
|---------------------|--------------|
| MLgn | + 1 |
| Madf up. | |

The extractly variation and have contracted between the contraction of the contract of the con





Fig. 4:10. Certainty level combining notes

The combining estate is littletowned in Fig. 4.10.

If now then me rule is examined, the cartelety workeds which her the highest certainty inval is chosen for the witten part of the rule. This notice is transments because at the Legised natural exploration of the templates. The failurely accepts literately the Operations of the Cartely development of the templates. The failurely accepts literated the Operations of the Contrality development order.

3) The wade wave extinition are low THEM The elemp stage of the apoli in STAIR I wish a SIDM lovel of curtainty.

The three role inglish that, the sizes steam of an appeal to several to secrete a roll 2 steam in roll 2 steam in the relativisty of contrast to the roll of the roll and the roll of the

That, the mertainty level of the rule entire part is rediffied by decreesing the level by $\cos_2 \delta$ $\sin_2 \delta \cos_2 \delta$ red line. Pedium.

Emigration Between

The first IDDITING pattern of the position requirespecial confidential to the explanation and the conline explanation models on the occurs of the landson law. The explanation models on the occurs of the landson law. The confidence of the landson law of the landson law. The confidence of the landson law of the la

OWNER V

knowledge been. The wavefock proposables warmedown, which of the classification rates are based on the Earltechaffer and Raise alasy steping criteria. In order one to less the developed system has the floatbility to allow spdiffication system's least-size bear with a variety of contestion

16 recently of subjects from 2 to 70 years old. The number

of mojetic forbided in the present maryins in and sufficient to provide a thorough system percursors wilderine. The wideletter is no founded process location processing of such sens date from rener of endpoint. The system tills require a militation by preferences in the propriet from present and its clinical application areas. Then, the system will be considered as a sufficient to the contract of the form of the clinical application areas. Then, the present order of militation program conspection of the the death preferenceders in its quantity than in other wases of marrier write descriptions.

Nourver, from the results of the 16 records, a geomety perspective for problems can be dispertented with discussions on the reture of errors, the system performance and its limitations, and were of further increases.

Engarlemental Procedures

This worky wellows a such as it is more for constant and operated as to been up companied. Note that the property between 2 to 213 years and, companied and operated as the property between 2 to 21 years and, companied and contains from respect and of the undeprised to the upper proper 23 years and, companied contains from respect to the upper proper and property of the contains and operation of the contains and t

waveform detectors are described in chapter II-. The four SSG/SGG corresponds to 1.5 (v) say the aspet to the englyrecording to indicate the 50 [cv] 880 level. Each channel eignal is districted on a 480 Ms sometime rate by a 10 bin A/O converter. All the channels and first lespess filtered All the severice detection pareceters, except the delte sharter II for all the subjects' recerds. Since the delte aspilitude level to generally much higher for a votes subtent low), is used for all the subjects of 12 years old and yearper. The time themshold of \$5,7 (pv) is used for all the east of the histor ope switches. The taken data of all subjects processed from the early-processing evalue are online sequired with a PEP-LI/23+ System and stored on \$150 disks. These date of 16 records constitute a data-bank token energiate purposess. The token data for one stoke sussections taken data files are next to the ratebox of deis counted for signs specialties, twinsplaces, and fill waves from total worsdom collectly time per solute is unwested for edge, specially special

....

the system performence is ultimately measured in and M N; were (Ag72) to used as a referential quide for the instructions for eigent recording, sources criteria, and of dalibration records, which includes all normative subjects in the range of 27 to 34 years sid, by an initial movers and by dient adjustments move the laboratory percentals. The set was used to the standard calibration recards in that interesting to test a finan energy's performance level. According to the reveal, which is size. rate with the excedent relibration records in regaling for the qualification of estimatory source by a source. It is nothinarily that the required agreement rate manual experiments output for 50 b, then, it is the desired reference for an entire of the third reference evidencial waverup agreements, sector the six steps, of four trained house accuracy with the six attended emiliaretics records are respected in the meaning of our liberation in their A.1.

The symbol primodal processing section was supposed seen to be designed before the confirmation of the con

Total 3.3 shows the percentage agraement and the chemification agrows dustribution agrees the stray stage of the 1st reserved. The processing agraement relater for stock angulat research are attentible 3s appendix G. The recently approximate agraement is \$1 s, which is obtained by COVINING the diagrams your CC the spines by

Twice 5.1.

Principles Agreement with the Standardized Booking Across Six Californion Securds By Evaps of Sleep And By Booker (Ag72).

| 144P | _ | Source | | | | | | | |
|-------|----|--------|----|-----|--------|--|--|--|--|
| toges | 1 | 1 | 3 | - 4 | Across | | | | |
| 0 | 34 | 50 | 16 | | 95 | | | | |
| 1 | 21 | 10 | 40 | 29 | 80 | | | | |
| ž. | 90 | 79 | 94 | 98 | 94 | | | | |
| 3 | 32 | 35 | 89 | 70 | 40 | | | | |
| 4 | 65 | 91. | 81 | 90 | 84 | | | | |
| 5 | 50 | 13 | 27 | 99 | 96 | | | | |

| Grang Age | | Records | | etoger 5 and 4 together |
|-----------|---------|--|--|--|
| decup 1 | 5 - 18 | 10010 (8) 10050 (8) 10050 (3) 10060 (3) 10060 (3) 10014 (3) 11832 (28) | 75.0 83.3 97.5 88.5 86.4 72.3 91.5 | 77.8 93.1 89.0 93.9 93.9 81.8 81.8 |
| Ocoup 1 | 28 - 34 | 13769 (25) 13737 (27) 13747 (29) 12244 (36) 12286 (36) | 89.0 96.7 82.6 62.6 92.8 | 53,6 51,4 90.7 84,9 94,0 |
| Service 3 | 40 - 79 | 10887 (43) 13771 (53) 10834 (83) 13740 (70) | 72 -4 85 -2 72 -4 93 -8 | 72 4 65 1 72 4 62 6 |

01 0 0 0 0 000000 0

Costribution of Percentage Non-Markone Recomment for the 16 Records, a) With separation of stages 2 and 5, a) without separation of stages 2 and 6

Tobbe 5.3. Mes-mechine Agraement dur the Tobal 16 Records (5 to 72 years old).

| | | | | an Book | | | | e negetiv | *) |
|--------|------|-------|------|---------|------|------|-------|-----------|----|
| wing. | | 1 | 5 | 3 | - 4 | 5 | total | mpr.(%) | |
| 0 | 436 | 96 | 4 | 0 | 1 | , | 684 | 90.1 | |
| 1 | 112 | 53.7 | 67 | | 0 | 52 | 286 | 40.6 | |
| 2 | 46 | 37 | 3621 | 130 | - 1 | 169 | 2021 | 89.1 | |
| 3 | 0 | 1 | 45 | 212 | 21 | 4 | 323 | 65.4 | |
| 4 | 0 | 1, | 3.9 | 350 | 484 | | 769 | 63-7 | þ. |
| 5 | 19 | 45 | 133 | 7 | 0 | 2843 | 1865 | 47.1 | |
| rete) | 631 | 237 | 3713 | 605 | 500 | | 7197 | | |
| nge(4) | 71.4 | 47.4 | 11.2 | 34:4 | 55.3 | 87.4 | | 63.4 | |
| | L | | | *84 | | | | 87 | |
| | | and 6 | | | | | | | |

(felee positive)

The District one of the sponks in the balls. Each staywords expressed TADICS to doublingted its terms of both figure parties and nagative surges. The single-size paroxings systemated above at the right next outcome parameters than the parties were few on the parameters of the operator than Angelies were few on them passed on the statement and the season trace of the sponks of the sponks of the season trace of the sponks of the sponk

News 2 serving show should not 8 agreement in myle Christians remaining in errord 16 k of first impairing and DRILLIVE STEELS. However, there should be not not forward objects—only if Tays 2 sawing by wilesting changes in the single equisid charttion parasetawe and filter structure sainty manneds to a object's any given. Since, 650p. 5 south among a service service of the should provide south among a service of the since sport, further locates in these 2 morting will give a adjustices.

The ADM TIMES (ENG) 2) serving above also a pullwide high personal flows 70 % a beth discussion and serving in law than 23 % of finis applies and positive server. When the assign of respond 1 md 3, which have loosing these fortile (124) of the littl least, they are mostly higher serventions guarantee than the scale of the other singer. It is equificant than the site shape also becomes of the main relative source of the same shape.

mesoware of ASM stope oppring to relatively explicawith Stere 2. For some sublects, REN years assess securities the SSS along and Strop &: In this study, this occusion. The portion of \$1.3 % of these arrays receive from the three popply source popular, i.e., 1997, 10114. end 10719. If so 199 channel to incorporated to the madenia. the EDI simp scoring one be improved further wolks. The EDI Catastian augmentum acceptions gives a false mention how detection during MEH slams remaining a further sinterwises. However, this does not cause meetings troubts most mass. The false 350 detections can be easily everyded by the contest information of other delta or signs calcula-Thus. the dears 5 posting arrays of the system are related MECH to the verieties of subject EES absorberiation than to the fecom goodstow EDN were detecting-

the nost significant error is the poor timestatesion of Engs 3. The dispose a socities shows a significant encount of both false positive and empetime across seministed with the dispose 3. Stope 2 society also obtave a significant encount of false positive excess senset of the poor false positive excess senset of the poor timestate of t

there a as true 3. The State 2 sources arrows associated with steps: 2 and 4 contribute 6.7 % of sever in the total secreta arranged, 1.c., 496 Min-special special second state the for the nuclea, Spanish, the correct section of Steen 2 to on inherently difficult problem, whose the senare of Stope 3 In a tree of transition between place 2 and place 4. Horse percentegs expensed for the slong steps 3 classification. standard of Agree and Moto. The door luman montage" everyone stendent calibration secrets is only 40 %. It is important other stepse reportises of the reskine's high apparent. secrice. It is, thus, very doubtful that the system can out a alsoificent improvement is overing stage 2 by any other deliberate energelo of delta date. It even commo the overant octave of speek-by-speck completees with the home cooring results. In se editory to improve class stars

separating the elemp stepse 5 and 4. The crossil percentage agreement of this system, without separation of the steps 2 and 4, in F7.3 5.

They is a section of the section of

Steps 0 stone a high operament rate of 10.1 G with a state of the stat

home member. The expected createst applications of the description of

The promptal say seven persons along the security separated office is a same for folio to E. Min say group sevent of file is a same for folio to E. Min say group seven file is of high appearant seven the interest of the same folio services of the same folio services and the same folio services are same folio services and the same folio

Table 5.4; ... Non-marking Agreement for Group 1 (5 to 18 years cod)

| | | | 0001 | | rigitation | | | | co is lesse | |
|---|---------|------|------|------|--------------------------|------|------|-------|-------------|--|
| | | | | | echios Secre (Salas sego | | | | | |
| | 200 | | 1 | 2 | 3 | 4 | 5 | totas | ngr.(%) | |
| | 0 | 190 | 13 | 2 | 0 | 1 | 1 | 107 | 51.0 | |
| | 3 | 20 | 63 | 24 | 0 | | 9 | 110 | 37.3 | |
| | 1 | y | 27 | 1464 | 65 | 3 | 96 | 1893 | 85.6 | |
| | 3 | 0 | 1 | 17 | 1.16 | 10 | 4 | 1.68 | 65.0 | |
| | 4 | 0 | 0 | 11 | 185 | 355 | 5 | 592 | 16.7 *52.4 | |
| | | 1 | 28 | 71 | 7 | 0 | 771 | 178 | 17.1 | |
| | total | 21.0 | 132 | 3409 | 395 | 401 | | 3607 | | |
| | egit(#) | 97.2 | 47.7 | 56.0 | 02.5 | 16.6 | 12.6 | | 63.1 | |
| Į | | | | | *5 | -4 | | | 88.4 | |

* we stages 3 and 4 discrinings

Ifeles positive

Table 5.5; New-rechise Agreement for Broad 2 (25 to 54 years

| | | | | e Soory | | | | negetive | |
|-------|------|------|------|---------|-----|------|--------|----------|---|
| 200 | 4 | 1 | 2 | 3 | 4 | 9 | \$66al | mpr,(6) | |
| 0 | 12 | 1 | 1 | 0 | 0 | 0 | 62 | 90.9 | |
| 1 | 7 | 22 | | 0 | - 4 | | 64 | 65.5 | |
| 2 | , | 2 | 1037 | 74 | 0 | 14 | 1134 | 91.4 | |
| 2 | | | 34 | 84 | 1.1 | 0 | 125 | 68.1 | |
| 4 | 0 | 1 | | 22 | 65 | 0 | 277 | 10.3 | ٦ |
| , | 4 | 4 | 12 | 0 | - 4 | 902 | 112 | 15.3 | ı |
| tote) | 73 | 20 | 1111 | 227 | 200 | 627 | | | - |
| me(B) | 26.4 | 60.0 | 13.3 | 95.4 | | 14.0 | | 86.7 | |
| | | | | | | | | | |

* no etegeo 3 mod 4 discrimination

(false coulties)

Noble 5.F. Her-reshine Agreement for Droop 3 (47 to 25 years

| | | | | e Soore | | | | negetime) |
|--------|-----|------|-----|---------|---|------|-------|-----------|
| o Land | 1 . | 1 | 2 | 3 | 4 | 5 | total | mpr-(%) |
| | 189 | 29 | 1 | | 0 | 3 | 204 | 68.2 |
| 3 | 25 | 24 | 34 | | 0 | 41. | 134 | 35.4 |
| 3 | 30 | | 124 | 1 | | 19 | 1003 | 90.4 |
| - 3 | 0 | 0 | 14 | 1.0 | | 0 | 28 | 65.2 |
| - 4 | ۰ | 0 | - 0 | 0 | 0 | | | |
| 5 | 76 | 13 | 20 | | 0 | 268 | 395 | 75.8 |
| | 310 | 78 | 193 | 13 | | 371 | 1771 | |
| egu(%) | | 66.7 | | 12.3 | | 72.2 | | 10.6 |
| | | | | | | | | |

ffstee poststve

weriebility of 805 cherecteristics with fair amount of ham seeing error. Thus, it is not resonable to represent the system's performance for this ego group by the above agreement were.

Gierurelene

asserted and busen couring is, on reviewed in the last involved in the process. Assem the major factors are; the evolution. Nuch of the spubles to related to the turns visual secognition propess, which is not fully understood to intelligence and A.I. beckniques. Monorer, discussions on

divided in two independent parts, 5,c., the entireprocessing from the enrip-processing system to the taken processing seekes. The wavefore recognition processes in the series strikined from the higher lavel token precessing system or from other endpert date. Thus, there and exist a brind of feedback loop such that the two separate parts are operate together constituting an Lancepowered minute number. This permentage wavy from subject to subject and even within a

adeat his recognized to defeat the recognized of introduces constant to obtain an objectivity to the commuter account is refutable. The EEG scalinging grotten is based on the data-ties of waveform occurrences in the record. The objectivity of empyter engints require from a constance provided in veryone reports and extendends must be separated as only merginal reference for the definitions of weathers. As long as the complete on defaul the weather obsciousness is assessment may ricestly appraising with a house SCCCPT, it cannot be a question of which the sevence promoters was and consense or shough encoding to take related contents. The objectively is seen of newtice primaries was one on be at least of white species of Computer was one on be at least of white species of Computer was water on be at least of white species of Computer was easier of 150 deep, each as a which of leastcompany analysis of 150 deep, each as a which of leastcompany analysis of 150 deep, each as a which of leastcompany analysis of 150 deep, each as a which of least-

A self-degline medicale in necessary to extract decisions and self-degline medicale for the first polarization and the first polarization and the first polarization and the self-degline decision of the self-degline decision of the self-degline decision and the self-degline decision and the self-degline decision and present of file 6. Bet. of self-degline decision and present of file 6. Bet. of self-degline decision and self-deglin

Sheep steps 3 meeting to the new section tax incomed in the devitopment of an extremed enough system, Unfortunately, the grother of low agreement of also steps was storing count to adved twotly, and in to not clear was AT IT ON A WINNER OF CO.

The many papers of the papers of

OWNER S

The core agreems to encerted along contract, memorips under garge, speaks as the off a monthless Academic Acade

properties application of the control of the contro

aigha, bata, delle, nipea, thete, mustle griffest, and the level. The Manufadge-Neved below processing system, including the best and the heroindper-base editor, in devaluated by employing stems often account makes annihiting the Names assers's gricoses of interpretables and

The descriptor against its tensor with a readous resistant of 16 readous of suggistion for to 80 pures of such parts and to 80 pures of such parts and the such parts about 16 pure 16

Printfally, there exists cost for further approximate of performance of performance and approximate of the performance of the p

much on possible in the development of the system's knowledge been.

there exist secural potential limitations which can be editremed for further Lagringson of the scales participance subject data. This will significantly improve the marky numerics system's detection reliability. Next, a self-Circussed in shapter V. The sleep stage 2 evering problem expressor of this stems courses so significant in terms of total system preferrance. As discussed in chapter V. in in resiletts to incorporate a hanas second's re-essentiation erroman of class I seering with the computer expring results human ecocute do not occavade a reliable and consistent singo

The sizes BHS sembyring positions provides as semilarly emphs of a hearietie, horoisege-linearine goodson Goesle for the egglication of an appert spates approach. (Openior INT medics and scalptic problem octrony medics or not emiliate, but the ecolptic suites on the visual improvides and egitidation of the bounded interpretation robus of a voluntialized bown apparent. Date the surface denset like these sold mentions, egitimation of any easilysts establish promoting appearant equipment intertuin in companing promoting appearant equipment and association in companing of automated energetic exclusing progressing regions in an approximate deal contention progressing regions in an approximate deal contention progressing regions in an approximate of the contention of the contention of the exclusion of the contention of the contention of the exclusion of the contention of the contentio

Season Phero salet named Contractor (intrattory

As continued beautiful Districtions in a wayleter by the Content Li. Speakers with the contribution of the description of Institutes and principle Lithfornian. The description of Institutes and principle Contributions and manufactures are contained with the Institute of Section 1 and Contribution of Contribution of Section 1 and Contribution of Section 1 and Contribution of Section 1 and Contribution 1 and Section 1

erount of special cases in different contexts, and this capability has been obtained through years of grantice and especience. This then become a fundamental berrier in Implementary the heuristic browledge is a computer, since to most owner consciousnice of the knowledge to Indorestly o We memographic range of a computer. The come fundamental questions, i.e., wether or not the homes conver's steam EEC not the secure of knowledge to show horse expert level performence is within the memography Image of a commutary are not yet consumed. Movement, considering that presently domnia without using A.I. technology are to officer in to residents to somes him expert system appearsh and to expect

The numbers stody shows a new application of the A.I and supert system separach to the EEO elemen processing application domain. Although, whose removed because on the extracted always riogs according, forty Extension,

INTELLIGENT servicemental test in the steen research and the clinical equipositions areas. All the extrected were poor computer in vertices ways according to the wear's interests treatingest massor. A metural language interface espatility is important for a managed application of the sames end related eliminal applications. Siere, significant tokens is not limited to any small measur of fixed menigalations of the boken date, the system such interact with the year in a highly fineftle way coopending to the uses's requirement of sade complex information englaration. beautings which one sotreot potentially eightfloors

The approxis and the techniques developed in this stiff can be forther applied to other similar eigenpresencing applications (months like, signal poccessing and likewyewleyion of other handpoind dots, pulsamery disease disposals, periant monitories, and exceptions, security, and secure record passings and exceptions, security,

APPROVIS A

The option shame a long local modelline more, or the beginning of the option appearance. The long local local is likeliherance of the option appearance is the local local likeliherance of the local local likeliherance of the local likeliherance of the local likeliherance of the local likeliherance of the local likeliherance of likeliherance of the local likeliherance of the local likeliherance of likeliherance of the local likeliherance of the local likeliherance of likeliherance of the local likeliherance of the local likeliherance of likeliherance of the local likeliherance of th

The most should be \$1.00 to \$1

Steep healysing Expert System S University of Ployade

There a measur from the collecting saver:

Country Country Tourism Marie 11: 580-68822

Server a sense deposition positiveing resour
1. DAG
2. STANS
1. TANNETIES

GETA GETA GETA

Fig. 8.2. Arie Rem for Activity Salvati

of noteins for rule editing electron are about in Eigeree A.2, A.4, A.5, and A.4.

ressed number, and date. Then the system displays oil the mony input appropriate one by one with a default value as to illustrated in Fig. 8.7. If the weer wants to shange the running and displays speck-size consultination results on the errest. An example of monitoring screen, while the identification modes for all the paleted rules in each econdsimulativetics result. We left nost outlan displays the first some for soft sport. A serving window containing the date of the current fore specks, is also shown at the bester of the occupic. Contented contractions are performed at ottophed to the window noting all the date alide one appoin constitute. The first egoch in the ranging stillow beginns the

During the execution, a wave end interrupt as any time. If he waste an exploration of the emulia, by obtained

Mile-delice Charles - Charles - Producy Back Charles 4 - CROSP Trains - Producy

CCCPY-SALE

Fig. A.S. News for Rule Edition

TOPHENG, An in Market System Education And Systems Education Communications State (Market State) Modify

Bulle 1 d ;

the A.A. To Date the Bosses for their bosses.

Person Sylvest Senter Shall ... Inchange State ... Inchange State Company Comp

Edit CHANNELS-CHOIF roles hould as invert rises of Alfin-Co vi Edit 1 0 ; 8-38 Delta Foreign

(op pase val) or ((op pare val)(, ..., ..., ... or 0 for quit

Fig. 4.5. In the beautier becomes

Sepert System Edulativ Non-Amage

RE-SECT CHARRES-SHOW HIS DEADERS-COMP FILES - Nedla Market Files-1 of ACRES-CH ***

NAME FRONTING OF ALPEN-TIME SO

Spends serect (pass vol Gr) or (fpoce val Gr);

TO A 6 States of Colors Court States and Colors

Tager (12-16-1982)
System (12-16-1982)
System (12-16-1982)

teljant Apr. 27 Tel Coory Parameters was

In the felling details supe or to 170-1

ip. 6.7. Sarry Farancier Values Days.

Outs: (13-13-1988)
Dets: (13-13-1988)
Dets: (13-13-1988)

(808-81/8A 8125 8) (8008-08/8 90 8)

near Sales for Max see . From 7 to peace or 5 to 2009 Coverings

0 ((6-0 8) (6-0 8) (0-12 0-24 A-(6-0) 4 (13-0 8) (8-0 8) (6-13 0-24 A-2 0-14 0-42 6-24 0-42 0 8 (16-0 8) (8-0 8) (0-12 0-43 A-1 6-0 0-24 0-82 0-17 0-

50 , (6-2 M) (0-10 0-10 0-11 0-15 0-1 0-0 0-0 0-0 (-0) (0-0) 0-10

A NEW YORKSTON STREET STREET STREET STREET

the 'P' bay. The epites procloss on septemberium manhenium manh that the over own trone a rule execution line. Owner can time the like of removating by extenting oil the rainteem parameters listed as in shown in Fig. A.5 for an example. An example of explanation is shown (n Fig. A.3). Deta: (12-18-1908) System Enable on Exp MEAGE Salyact Municipal 11979 1203100 August 23

see Number Sleep Stage Boosley "

Brief a mediat from the following HEWS; 5'

1. STAGE 2 WORK-WORK 3 DELTA 6 MEN 1 KINGST 6 MIN-TERM 7 ALPEN 5, KINGST-THE VILLEA-TIME 50, 5000A

Fig. A.S.: Parameter Selection Home for Caplanatio

Date: (4)-1(-1962) Sector Special as pay orange (60)-60 Monday, 11772

dee: Nais see Survive Sleep Steps Scoring was

Name of the continue

Dute ED + G-12 If I HE MAKE HOW STORY THEN A LOADS TRAMED NO.

These stage of the spool is determined as STAIRD by the shows rais G-12 such that I if an apoch a way stained were activity is high, then the spool is accord as STAIRD with a maddless tout of according to according to the spool is according to the spool in according to the spoo

Fig. A 10. An Exemple of Explanation

......

The derront system contains III domain suches in the Mindeldge base of the system. The system can be further sindocated by saling more rules. In this appendix, the rule base of the current system in listed in a numerical labor

Sub-investical matterial time or matter of consistent or provides of mentional will be extended only the product of the provides of the control of the provides of the control of the cont

Combining the shape descriptor indemention. These was cheserigners one give further electronism of the worsdown entowing detail. This spates includes the descriptors of Shape-their and Shape-their the Wase-their trip to Wase-their trip.

| Telico B. 2. | | | | |
|--------------------|-----|------|-----|--------|
| Activity Sevel | 7 | RISS | | Nettra |
| Cectainty Least | | и | 6 | и |
| Alghe | >25 | ×30 | 115 | 25 > - |
| | | | | |

relete the loved of the wese seriorities which are classed, respected with adoption water when it was considerable and confidential and confid

Some open is the classical one one of the single souncing to be equivalently risks. In simulations provide the simulation of the classical control of the quick tensions for one risks. The importanentation is the classical of the simulation of the descriptor. Daily spack to extend with nor of the control of the classical cold of the process quadra when with the control of the control of the control of the other control of the control of the control of the other control of the control of the control of the other control of the control of the control of the situations when the control of the control

> information of number artifact, adjon setjetty, and/or mys Monamost autivity. The atlast wave octivities, work as signs spinies, in-complesses, and dozts extivities are used as the conjustes information for temperature. DOI level in

Twhis F.S. Combination False for None-W-Activity.

| | High | | | | Pledium | | Leu | | |
|---------------------|------|-----|-----|---|---------|-----|-----|--|--|
| | | | н [| | | 1 | K | | |
| Asses- Antonity | * | н | NE | | * | 301 | L | | |
| Musele- Buttvity | 2 | 100 | | н | 3 | t. | 105 | | |

tebte 8.3 Combination Naise Sur Elemphi-Activity.

| | Nigo. | | | Med | | Low | | |
|--------------------|-------|---|---|-----|---|-----|----|--|
| | H | | | ١. | × | | к | |
| Signe- Assisty | Ŀ | × | - | н | L | | i. | |
| Enony- Activity | - | - | - | | × | | NI | |

.....

| Artority teneriator | | | Plage 1 | | | | | |
|------------------------|---|-----|---------|----|-----|----|-----|--|
| | | | ж | | | | | |
| Valca-Nove | | | 3 | 7- | L | L | 8. | |
| Sleep-Mara | - | - 6 | ь | 1 | y . | | | |
| Alghe | | | | | | | | |
| Bala | | | | | | | | |
| DMLTA | | | | | | | | |
| 61-yau | | | | | | | | |
| | | | | | | | | |
| MussLe | | | | | | | | |
| Sin | | | | | | | | |
| NIN | | | 5 | | | ī. | | |
| Krisey | | L | | - | | | | |
| KINTE | | | 150 | | | | | |
| | | | | | | | 28 | |
| Subject-Algae | | | | | | | | |
| Deter-drug | | | | | | | | |
| Fre-1 | | | | | | | 405 | |
| PT#-1 | | | | | | | | |

Note: Underline Andrews the Ampation of the Stands.

| Activity Secordalar | Stage 2 | Stage 4 | | Eta | ge 5 | |
|------------------------|---------|---------|-----|-----|------|---|
| anningser. | | | | н | L | - |
| Rober Boom | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Alphe | | | | | | |
| Wite | | | | | | |
| | | | | | | |
| Darte | | | | | | |
| OHITE | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| NINGTE | | | 200 | | | |
| hanta-ties | | | | | | |
| Degle-Lies | | | | | | |
| Subtest-Allib | | | | | | |
| SUBSECT-AINS | | | | | | |
| | | | | | | |
| ocosc-cros | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | d | | | | | |

high for the drape O apoths and this EMD Indirection gives a short EXERCICO between Stage 2 and Sea Lakey (Sayer 5); since the BMI showed is not utilized in the system, the Least of suphs estivity (for a high subbe embryot) and manufa entificity provid its expensation of ARX Lines from Stage 0 in officion to the late

attivity todowanion.

Hapi II - Enem I templatus are mently based on the
absence of vary activities such as

WEXE-W-Activity, Simp-W-Activity, Sector

Activity, and ESC entivity, Not occurrence of
bots SCUSSION.

Figs 1: The eggsations of signs spinishes not be engineen provide the clearest and must exist the engineen for Edgs 2, dispose the signs spinish and herogaless into appear in stops 2 not Edgs 4, the edits outlying least in such to determine the september of Sings 2 from single 2 and 4.

Stope 0, 4 The level of dails settivity possions the

Steps 5. The SEM, the bett activity, and the disappearance of the other wave activities, constitute the exporpant of Deep S templates. If the DE is religant to many accounts.

UTS amplitude information one provide a

The endesteal morthog with a frazing under pige to the control of the control of

- O The Skeps i spoots which presents within five aposts from the SEN Steps NTW All amounted into Steps 5.
- Steps 1 special which succeed MM special are all seconds of the steps of
- Tings I speaks are monothed over the extremeling apoch's shape, if the Tings I speaks are not associated with the highest currienty laws and expost in less them three consciction appears.
- 4 Steps 2 spect which is surrounded by the Nov Aprels in smoothed late Sings 6, if the methalog Level of Shams 2 is now how.
- Level of Stage 2 is not boys.

 6 If Stage 2, 2, 4 specks, which are executated with the lowest matching certainty level, are

Table 8 C. Continues Consensus and

| | | 1-0 1 | 8-1 F | ::: | :-0 *) :-0 *) | - |
|--|------------------|--------------|----------------|-------|------------------|---|
| | [a-3 + | 1-0 : | 8-3 t 8-0 5 | a-0 : | 8-0 *) 8-0 *) | |
| | [8-0 * | 1-3: | 8-5 t | E-0: | | |
| | 1:0: | E-2 F | 1-0 1 | | | |
| | (e-2 * | | | | | |
| | (0-2 * (0-2 * | | | | 8-1 *1 6-2 *1 | |
| | (n-2 s | *-2 * 2 * | 1-2 : | n-2 * | 8-2 () | |
| | 8-3 a | a-3: | 11: | 1-3 : | n-1 +) | |
| | (1-0 t | m1 * | 8-1 * | 11.1 | 6-0 +) | |
| | (0-0 : | 8-0 G | E-0 : | | | |
| | Cen5 + | 8-5 ° | 6-0 · | m15 6 | 2-5 51 | |

ADDA: The symbol " indicates any emristacy tax

| | (8-5 E | | | | | |
|-------|-------------------|--------|---------|-------|------------------|--|
| | (a-5 * | #-1 1W | 4-2 300 | 0-0 1 | 0-0 *1 | |
| | 16-0 * | 211 | E-0 *) | | | |
| | 16-0 KL | 201 | 111 | | | |
| word. | 11:11: | 22.1 | 8-3 * | | =-4 *) =-4 *) | |
| **** | (e-4 %) (e-4 * | 1.2 | 6-3 * | 2.5.2 | 1-6 51 | |
| | (8-3 * | **1 | 10.00 | | | |
| | 16-3 * | -2: | 111 | 231 | | |
| | 12.7.2 | 0.2.5 | 0-1 * | 200 | e-5 *) | |
| | (e-2 * (e-1 * | F-1 * | 4-2 11 | | | |
| | (n-2 *) | | | | | |

nee yes syroot " ledicates may certainly level

| (e-2 * | 6-2 * | 8-1 * 8-2 5 | 0-1 ° | #-2 15) #-2 *) | |
|-------------|--------|----------------|-------|--------------------|--|
| (e-2 id | 0-2 t | 0-1 t | 6-5 P | 0-2 (5) | |
| 200 | 1.2 1 | 6-2 * | 53.3 | | |
| (e-2 · | 1-0 1 | 2.3 1 | 1111 | 8-2 53 | |
| 10-6 * | 23.0 | 12.3 | | | |
| 10-6 30 | 2-2 * | *** | 25.5 | E+6 *) | |
| (e-2 · | 1-2: | 111 | 1-2 : | 0-2 *) | |
| Co-5 * | 12: | 23. | 1-5 | *12.22 | |
| 100 | 1.3 1 | 4-4 | 2.3 | 1-0 *) | |
| (a-8 5 | 0-5 +) | | | | |
| | | | | | |

Hote: The symbol * indicates may sertedaty lave:

Table #.5-rections

| > | (e-3 H) (e-2 * | 12.1 | 8-4 ° | | 01 13 | |
|--------|-------------------|-------|-------|-------------------|--------|--|
| | (n-2 ML (n-2 * | ::::: | 0-2 L | 0 +3 A 0 - 3 P | 8-2 *3 | |
|) | (s-4 * | :4: | ::: | :-4 *) | | |
| | 10-3 * | 1-1 6 | 12: | 6-3 *) | | |
| | 10-3 * | | *-3 * | E-2 *2 | | |
| | (*-5 : | 23. | 1.11 | 4-3 21 | | |
| real . | (*:) ÷ | 5-5 * | 0-2 5 | *-3 *1 | | |
| > | 10-2 * | -26 | e-2 · | s-2 *) s-2 *) | | |
| | 18-5 * | | | | | |

messalated with a high mething cartainty level, and the Length of the lateroning speaks are less than three, than the intervating speaks are smoothed into the carrynoding appoin's atom.

Bescholding of the seembleg pays to purposed by the arrespont of the goal hypotheses of the Introduction level siteself-section Dates. The system one coping man States of schoduling Chies shall not except such securing Dates at schoduling Chies shall not except such securing party by sensing section the Dates States. Never, To see simplicity. One current school engage only also raises and the secretal parties are reprincilly desirate as the followings depositing on the level appoints stops of the

| | 2+e | reb | rosh | | | 1445 | - | | 51 |
|------|-----|-----|------|-----|-------|------|--------|----|----|
| (+-0 | 0-1 | 6-2 | e-3 | 4-5 | e-4): | | Lege | ō, | |
| 0+-2 | 4-2 | 1-5 | 6-0 | #-3 | 414)1 | | rtege | ı, | |
| (4+2 | 0-3 | 0-1 | 6-5 | +-0 | 4-5]1 | | vtnge | 2. | |
| (4-3 | *** | +-2 | *-0 | 0-1 | 6-13- | | 12.004 | 2. | |
| 16-6 | e-3 | ==2 | *-0 | 0-5 | *-1); | | tege | 4. | |
| | | | | | | | | | |

APPENDIX ()
NON-MACRINE SCHOOL ADMINISTRATION FOR DACK ZERZECT 200000

Tells C.1. Man-weeking Agreement Tobis for 18715 (5 years

| | | | | | | | | negative |
|--------|------|------|------|------|------|-----------------|-------|----------|
| #100E | ٠, | 1 | 2 | 3 | 4 | 5 | total | Agr.(8) |
| 0 | 37 | 3 | 1 | | 0 | | 43 | 12.5 |
| 1 | 0 | , | 0 | 0 | 0 | | 7 | 100.0 |
| 2 | 2 | 9 | 148 | 23 | 3 | 54 | 213 | 63-5 |
| 3 | | 0 | | 1.0 | 7 | 0 | 3.9 | 50.4 |
| 4 | | 0 | 0 | 2. | 120 | | 122 | 19.4 |
| 5 | 0 | 13 | 23 | - 6 | 0 | 137 | 181 | 79.7 |
| 20245 | | | | | | | | |
| | 39 | 22 | 192 | 41 | 139 | 271 | 130 | |
| egr(4) | 84.9 | 21.2 | 97.5 | 33.7 | 55.4 | τ_{1},τ | | 76.0 |

and a contract and a

African marketonic

on Aprentant Table for 18150 (8 years

| | | | MACS LAW | | | | | Degetive |
|--------|------|------|----------|------|------|------|-------|----------|
| atam | ٠. | 1 | 3 | 0 | 4 | 9 | 54645 | ogr (†) |
| 0 | 3.5 | 0 | 0 | 0 | 0 | 0 | 13 | 200.0 |
| 1 | . 2 | 4 | | | 0 | | 28 | 25-0 |
| 2 | 1 | 3 | 807 | 11 | 0 | 1 | 233 | 92.4 |
| 3 | 0 | 0 | 0 | 31 | | 0 | 92 | 11-1 |
| 4 | 0 | 0 | | 43 | 54 | 0 | 128 | 10,1 |
| 3 | I, | y | 13 | 1 | 0 | 132 | 142 | 04.5 |
| total | 14 | | | | | | | |
| | | 14 | 855 | 93 | 55 | 121 | 564 | |
| mgr(b) | 62.5 | 21.1 | 93-0 | 36-5 | 11.1 | 19.2 | | 12.5 |
| | | | | 453 | 1.0 | | | *93 |

(felce position)

| | | | | a torre | | | | negative |
|--------|------|---|------|---------|------|-------|-------|----------|
| eta; | | 1 | 2 | 3 | 4 | | total | agr.(b) |
| 0 | 59 | 0 | | 0 | 1 | | 24 | 41.1 |
| 1 | 3 | 0 | | | | | , | 0.0 |
| 1 | 1 | | 250 | 13 | 0 | | 275 | 11.3 |
| 1 | 0 | | 2 | 24 | 3 | | 27 | 88.5 |
| 4 | | 0 | | 1 | 65 | | 66 | 90 5 |
| 8 | | 0 | 28 | | 0 | - 64 | 94 | 70.2 |
| ***** | | | 100 | | | | | |
| | | | | | 69 | 10 | 125 | |
| egr(8) | 23 0 | | ** 0 | 64.9 | 57.9 | 100.0 | | 19:5 |
| | | | | | | | | *05 |

Table 0.4. Next-machine Agreement Table for 18100 [13 peace 414]

| | | | Nichla | a Zoosa | | | (false | Regutive) |
|----------------|-----|------|--------|---------|------|------|--------|-----------|
| etega etega | 0 | 3 | 2 | 3 | 4 | | total | egr. (8) |
| 0 | 5 | i. | 0 | | 0 | 0 | 4 | 13.3 |
| 1 | 2 | 3 | | 0 | | 0 | 1.8 | 85.1 |
| 2 | 1 | 10 | 230 | 1 | | 2 | 244 | 96.2 |
| 9 | | 0 | 6 | | 1 | | 15 | 52.3 |
| 4 | 0 | 0 | 2 | 17 | 32 | 2 | 53 | 10:3 |
| | 0 | 2 | 1 | 0 | | 334 | 137 | 97.8 |
| 100a) | | | | | | | | |
| | | 1.6 | 247 | 24 | 33 | 1.58 | 618 | |
| ngr(4) K | 2.5 | 28.6 | 55-1 | 30.8 | 17.0 | 57.1 | | 88.0 |
| | | | | *31 | 0.0 | | | 950.4 |

(fates continue)

| | | | | s Seer | | | | negotive |
|--------|------|------|------|--------|-------|------|-------|----------|
| stop | | 1 | 2 | 3 | 4 | | tetal | Mgr. (4) |
| 0 | 16 | 2 | | 0 | 0 | 0 | 28 | 12.9 |
| 1 | 1 | 13. | 2 | 0 | 0 | | 15 | 60.0 |
| 2 | 1 | 0 | 190 | 3 | 0 | 3 | 157 | 56.4 |
| 9 | 0 | | 1.7 | 29 | 0 | 0 | 44 | 63.0 |
| 4 | 0 | 9 | 0 | 67 | 48 | 0 | 95 | 10.5 |
| | 0 | 1 | 1 | 0 | | 118 | 110 | 10.0 |
| totas | 23 | 15 | 200 | 79 | 4 | 131 | 584 | |
| egr(è) | 92.0 | 00.0 | 90.5 | 26.7 | 100.0 | 97.5 | | 14.4 |
| | | | | *9 | 3/3 | | | 452.6 |

Tells C.S. Han-eaching Agreement Table for bills [13 years old]

| | | | Neckin | a Soon | | | (6+5++ | (wystepen |
|--------|------|------|--------|--------|-----|------|--------|-----------|
| stans. | | 1 | 2 | 3 | 4 | 5 | 10643 | age (b) |
| 0 | | | 1 | 0 | | 1 | 18 | 46.4 |
| 1 | 3 | 30 | | 0 | 0 | 3 | 26 | 24.6 |
| 2 | 1 | | 197 | 0 | 0 | 35 | 326 | 62.6 |
| 2 | 0 | 3 | LO | 0 | 0 | 4 | 2.3 | 0.0 |
| 4 | 0 | 0 | | 41 | | 3 | 64 | 12.1 |
| | 0 | 2 | | 0 | | 137 | 145 | 14.5 |
| ••••• | | | | | | | | |
| tobus | 12 | 67 | 225 | 41 | - 6 | 1.63 | 333 | |
| egr(%) | 66.2 | 13 8 | 67.6 | 0.0 | | 74:5 | | 72.9 |
| | | | | | | | | |

^{*} no stages 2 and 4 discrimination.

(Delte medicina)

Toble C.7. Han-Machine Agreement Table for 11625 (18 years

| | | | | t Score | | | | cegettee) |
|---------------|------|-------|------|---------|------|------|-------|-----------|
| stag stage | ٠, | 1 | 2 | 9 | 4 | 5 | total | egr (4) |
| 0 | 90 | | 0 | | 0 | | 33 | 100 0 |
| 1 | 4 | 2 | 0 | | 0 | 0 | 11 | 63.6 |
| 2 | 0 | 0 | 209 | 0 | | 1 | 213 | 99.1 |
| 9 | | 0 | 2 | 14 | | 0 | 16 | 97.1 |
| 4 | | 0 | 0 | 20 | 26 | 0 | 54 | 33-9 |
| 8 | 0 | | 0 | | 0 | 50 | | 100.0 |
| | | | | | | | | |
| ieror | 24 | 9 | 713 | 42 | 29 | 60 | 461 | |
| egn(k) | 92-6 | 100.0 | 99.3 | 05.0 | 66.1 | 92.3 | | 81.1 |

no stopes 2 and 4 discrimination.

(files position)

Table C.S. Hearmenhies Agreement Table for 11767 (25 years old).

| | | | | e foore | | | (fales | repailer) |
|----------------|-----|------|------|---------|------|------|--------|-----------|
| elage otege | ď | 1 | 3 | 3 | 4 | 5 | total | egr. (%) |
| 0 | 9 | 3 | 1 | 0 | 0 | 2 | 33 | 69.2 |
| | λ | 4 | 4 | a | 0 | 2 | 1.1 | 56.4 |
| 2 | 0 | 0 | 216 | 18 | - 0 | 0 | 237 | 52-4 |
| 0 | | 0 | 0 | 22 | 1 | 0 | 23 | 95.7 |
| 4 | 0 | | 0 | 80 | 1.0 | | 35 | 32.0 |
| 5 | 0 | 3 | 0 | 0 | 0 | 155 | 156 | 19.4 |
| | | | | | | | | |
| latel | 10 | - 6 | 224 | 61. | 33 | 359 | 471 | |
| egar(%) i | 0,0 | 16.7 | 17.8 | 39.1 | 50.0 | 97.5 | | 89.0 |
| | | | | #11 | | | | |

^{* 50} steps 3 and 4 discrimination

(felse position)

| | | | | ne Doore | | | | negst(ve) |
|----------|-----|------|------|----------|------|-------|--------|------------|
| stage | 0 | 1 | - 1 | | 4 | | tebali | ogr.(%) |
| 0 | 13 | 0 | | 0 | | 0 | | 100.0 |
| 1 | | | 2 | 0 | 0 | | | 76-0 |
| 1 | 0 | | 204 | | 0 | 9 | 914 | 15.3 |
| 3 | 0 | | 11 | 7 | 3 | 0 | 90 | 10.0 |
| 4 | 0 | 1 | | 1.0 | 20 | 0 | 67 | 42.4 *93.1 |
| 5 | 0 | 0 | 4 | 0 | 0 | 11.0 | 119 | 96.4 |
| | | | | | | ••••• | | |
| 14545 | 3.3 | 9 | 221 | 28 | 22 | 134 | 451 | |
| agr(+)33 | 0.0 | 89.7 | 49.1 | 26.4 | 10.0 | 12.7 | | 66.7 |

^{*} no stupes 2 and 4 discrimination

497,0

Agreement feble for 12747 (39 years

| | | | Mechine | Score | | | felos | pegetive) |
|----------------|-----|---|---------|-------|----|-----|-------|-----------|
| stage stage | 0 | 1 | 2 | 3 | 4 | 5 | total | ngr.(%) |
| 0 | 11 | 0 | | 0 | | 0 | 11 | 100.0 |
| 1 | 1 | 9 | 2 | | 0 | | | 50.0 |
| 2 | 5 | 1 | 324 | 1 | 0 | 3 | 222 | 16.2 |
| | 0 | | 21 | | 0 | 0 | 27 | 12.1 |
| 4 | 0 | | 0 | 37 | 14 | 0 | 11 | 27.1 |
| | 1 | 0 | | 0 | 0 | 127 | 136 | 10-4 |
| | | | | | | | | |
| totas | 1.8 | 4 | 235 | 44 | 14 | 138 | 663 | |

" on stages 3 and 4 disconnection.

88.8 18 6 100.0 19.2

Seble C.11. Hen-mechina Agranaunt twice for 10264 [34 years

| | | | Nochie | a foors | | | (Eslas | nesution) |
|---------------|------|------|--------|---------|---|------|--------|-----------|
| #140 #240# | | 3 | 2 | 3 | 4 | | total | age (4) |
| | 20 | | 0 | 0 | 0 | 0 | 20 | 100.0 |
| 1 | | | 0 | 0 | | 3 | 1.2 | 41.7 |
| 2 | 1 | 1 | 190 | 63 | | 2 | 142 | 10.1 |
| 3 | 0 | 0 | | 30 | 5 | 0 | 35 | 81.7 |
| 4 | | 0 | 0 | | 0 | | | *100.0 |
| 5 | 3 | 1 | 10 | | 0 | 181 | 115 | 67.6 |
| | | | | | | | | |
| tetal | 28 | | 201 | 23 | 5 | 329 | 624 | |
| nge(1) | 79.4 | 71.4 | 99.2 | 41.1 | | 95.0 | | 82.8 |
| | | | | | | | | |

^{*} so stages 3 and 4 discriptivation

(dales positive)

Table C.12. Sur-section Agreement Table for 1925 | 34 years

| | | | Machia | a Score | | | (fepse | Degetive |
|----------------|-----|------|--------|---------|------|------|--------|----------|
| stage etage | 0 | 1 | 1 | 2 | 4 | | tobel | ngr.(8) |
| 0 | 4 | 1 | | 0 | | 1 | | 65.7 |
| 1 | 3 | 2 | 1 | 0 | | | 9 | 20.6 |
| 2 | 1 | 0 | 211 | 13 | 0 | 2 | 229 | 93.9 |
| 0 | 0 | 0 | 2 | 19 | 2 | | 34 | 79-2 |
| 4 | ٥ | | 0 | 3 | 45 | | 40 | 99.8 |
| | 0 | 2 | 0 | | 0 | 154 | 150 | 98.3 |
| | | | | | | | | |
| Stal. | 6 | 5 | 218 | 33 | 44 | 110 | 420 | |
| 92(9) 8 | 8.7 | 40.0 | 59.6 | 57.0 | 53-1 | 94.5 | | 12.4 |
| | | | | *20 | -6 | | | *14 |

NO ATRIBA S RES 4 SCHOOLSPING

(false martine)

Table C.13. Man-machine Advanced Table by LODET (4) wears

9147.

| | | | | na Booke | | | | neget(ve) |
|---------------|--------|------|------|----------|---|------|-------|-----------|
| etes etess | ٠, | | 2 | 0 | | 5 | total | age(t) |
| | 63. | | | 0 | 0 | 1 | 72 | 87.2 |
| 1. | 5 | | 12 | | 0 | 91. | 59 | 15.8 |
| 2 | 0 | 3 | 148 | | 0 | 43 | 199 | 78.9 |
| 9 | 0 | 0 | 0 | 18 | 0 | 0 | 12 | 100.0 |
| 4 | 0 | 0 | 0 | | 0 | | 0 | |
| . 1 | 3 | 6 | 1.9 | | | 100 | 122 | 62.0 |
| intel | 70 | 36 | 172 | 13 | | 175 | 457 | |
| gr(t) | March. | 36.6 | 85.5 | 92.3 | | 57.1 | | 22.4 |

Cause Doutgreet

Twile 6.14. Han-machine Agreement tobto for 13773 (33 years

| | | | Hechiae | | | | | reget(ve) |
|----------------|-----|------|---------|---|---|------|-------|-----------|
| Etogo stage | 0 | 1 | | a | 4 | 5 | totes | agr.(8) |
| 0 | 5 | 11 | 1 | 0 | 0 | 0 | 3.9 | 29.4 |
| 1 | 2 | | 13 | 0 | 0 | , | 95 | 20.0 |
| * | 4 | 2 | 335 | | 0 | 12 | 334 | 94.5 |
| 2 | 0 | | 1.6 | 0 | 0 | 0 | 1.6 | 0.0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | | 0 | 4 | 55 | 56 | 100.0 |
| retel | 11 | 22 | 338 | 0 | | 77 | 640 | |
| ge(1) 4 | 4.5 | 40-5 | \$1.7 | | | 75.3 | | 55.2 |

teres bourrass

Table C.15. Sun-machine Agreement Table for 18889 [83 years sld).

| | | | NorthLine | Zenen | | | (60).00 | magative) |
|---------|------|-----|-----------|-------|---|------|---------|-----------|
| atag | | 1 | 2 | 3 | 4 | | total | agr: (1) |
| | 30 | 3 | 0 | | 0 | 2 | 13 | 67.0 |
| 3. | 11 | | 5 | 0 | 0 | 3 | 19 | 0.0 |
| 2 | 23 | | 242 | 0 | 0 | 1 | 288 | 90.7 |
| 2 | 0 | 0 | 0 | 0 | | 0 | 0 | |
| 4 | 0 | 0 | | 0 | 0 | 0 | 0 | |
| . 1 | 45 | 3 | | 0 | | 55 | 120 | 62.4 |
| total | 115 | 4 | 254 | 0 | 0 | 6 X | 639 | |
| A90(\$) | 39.8 | 0.0 | 55.7 | | | 59.4 | | 72.4 |
| | | | | | | | | |

Ifalan position

Table C.16. Hen-machine Agreement Table for L1740 (70 years

| atag stage | 9 | 1 | | 3 | 4 | | | ego.(1) |
|---------------|------|------|------|---|---|------|------|---------|
| 0 | 100 | 3 | 0 | | 0 | | 1.00 | 95.0 |
| 1 | 7 | 14 | 4 | 9 | 0 | | 27 | 58.0 |
| 2 | 0 | 9 | 225 | 0 | 0 | 2 | 222 | 16.6 |
| 3 | 0 | | 0 | 0 | 0 | 0 | 0 | |
| 4 | 0 | 0 | 0 | 0 | | 0 | 0 | |
| | | 4 | 1 | 0 | 0 | 55 | 66 | 63.2 |
| 009#1 | 118 | 26 | 239 | 0 | 0 | 59 | 629 | |
| gr15) | 10.4 | 66.7 | 97.6 | | | 54.5 | | 22.8 |

,....

E.M. Agnes, Jr., and M.H. Mebb, "Sleep Stage Scoring," 1112 18he Types of Deute

J.I. Auton and D.O. Children, "Signal Processing in Evoked Potential Sessenth: Averaging and Modeling,"

J. S. Berlow, "Computerance continued Electronomodulegraphy in Paraportics," IEEE Trans. Electrosmosphalography in Pursporting, 1888 th Biomed, Eng., Vol. 18, No. 7, July 1870, 377-293 Hedle A. Berr and S.A. Felgantess, The Headbook of Artificial Intelligence, Vol. 1, Mullium Roufean

"Application of Compressed Sportral Array in Cilindal 860," In: Automation of Cilindral

1

800 J.E. Serrick P. Hessi, D. Giese, E.H. Soyue, P.L. Learning, JW. Bende, and P.E. Smechen, The Edd Acalysis (system of the Notional Computering Signal Study, 1888 Trans. Named. Eng., Phil. 27, No. 31, Nov. 1500, 688-688

 J. E. Kowine, "Engart Systems in Hedinius". A Boombied Engineering Perspective, "CITICAL Engants In Dissection Engineering, Vol. 12, No. 2, 1004, 51:20.
 P. G. Nukhann, C.S. Systemins, and S.J. Feigerburg, "Heuristic Section 21 A Fronze for Only of the

PATELLINGS 4. ENGINEERS UNIVERSITY FOREST BETTE BETTE

IRRALIJanes in the Covinct of Organic Chemistry, Nechine Principaces 5. Bilburgh University Press Bilburgh, 1978, 239-280. 8084 S.G. Pudhenan and E.E. Dhetliffe, Bule-besed Emper

3945mo ' The Myole Experiments of the Standon Secribeta Programming Project, Addless Feel; Poticising Company, Passing, Recombounts, 1384 Ca76 F.E. Gerhert and D N. Imith, 'Applications'

Setsilispent the of Constraints in Computer-engine Structure Elocatelian, Computers and Charlett No. 1, No. 79, 1576. Children, N.H. Hees, and 6-2, Malpane, Nasaramil Population No.641 for Electrica.

Prediction and Extrapolation, Critical Revises Schedulering, Val. 6, No. 2, Sept. 350, 123-133. Ceff J.W. Cooley and J.D. Tubey, "An Election for the McKline Calculation of Complex Portion Acts.

Mechine Colorier of Copyley Fourier Saries Nathematics of Copyrights, Val 18, 1008, 257-303 COST J.M. Cooley, P.A.M. Lawle, and P.J. Mall "Missories) Botte On the Four Fourier Transfer 71-72.

5:77 E.A. Other and A. Espare, "Stationarity of the Summ Electroscophologram," Nucl. 5 Sigl. 5 Computers, Vol. 13, 1977, 553-519.

 Dooper, J.W. Desaiton, J.C. Show, Edd Suchnology Betherworths E Gr. 166., Lender, England, 1995.
 P.R. Cales and E.R. Palgentur, The Headhook of

205 F. Gaber, A. Davie, D. Gey, H. Greenberg, R. Ejeldesk, E. Lander, etc. C. Lobselle, "Appressitetismens and Gomerboing in Cleaniflortion

0:95 0.3; Oracte(a)dt, 4: Soderstein, end 3.5; mettes "Computationd REC Fetters Clessification by Mospitus Expensionalism and Probability Sensity Processes Elementation Clitical Systems." Sindcreenings. Clit. NewSpipolal., No. 62, 1989, 232-259.

 H. Devte, "Expect System: Where Air But And Where Dis We Go From Sered" The Al Pagesine, Wel. 5, No. 2, Spring 1881, 155-175.
 Mr. S. Gegler, Jr., J.R. Smith, and F.O. Slock.

"Actomic Detection and Resolution of Dynobal Bapid Eye Movements," Computers and Sices Research, Vol. 8, 1975, 393-464.

2085 E.L. Dreyfus and S.E. Greyfus, Mind Over Helbins, The Free Frees, A Division of Hemilian, Dar, New York, NY, 1002, 1985. 2022 O. Domesonh and T. Haller, "NES Species Longitus by Henne of FFF." Inn Automotion of Cincipal

Hason of FFE, 1 let Automatica of Citation Sicotromocophalogoughy, Haven Press, New York, 1973, 148-160.

DUFF R. Duda, J. Dessining, and P.F. Hort, "Noted benign in the PRODUCTION Consultant System for Milarcal Segimenting," Opens Systems in Milarcal SEGIMENT DESIRES, Editories, 1979, 133-157, Milarcally Culversity Frees, Editoryth, 1979, 133-157.

N. D. Engelfills and M.P. Mil, "A Moneyadge-based System for the Interpretation of Frotolic 2-re-Gryeteilographic Bets," Neuristic Programming Fragers Eng. 30 EFF-77-2, Computer Science Dept., Statford University, 1877 in75 E.S. Engelmore and A. Terry, "Structure and Punction of the CHIRGIS System," LOUI, No.1 8, 150-254.
INVA L.B. Ersen, F.B. Heyer-Noth, V.E. Lesser, and S.E.

Pol. L.B. Erman, F.H. Hopse-MCCO, F.E. Lecour, and J.E. Baddy, "Don Researcy-II Speech Condestanting Systems Integrating National Computing Systems," Nat. 12, No. 3, John 1980. Documents of the Principles of

Understanding System: A Totatial, "Ist Transca Li Epocah Reseptation. Di. by W. Lee, Prentice-Hall, Englewood Cliffe, W.J., 1500, 381-381.

 Fainberg, G. Pais, and T. G. Hoppi. Terror and applicate Analysis of 1988 this at Tange, representing of rescales in proof educate. I Stephyrococcus. Dish Management, 301. doi: 150.152-151.
 Fait, Provide, F. Hobe, J. Dillinor, and G.M. Faito, "Hetlmerties) linearisis of a Faito."

Simulation Congress on the St. St. 1971, 281-197.

Fifth R. Films and T. Sabler, "The Role of Francisco Magnessystim is Rescoing," Consciousivelians of the MCS, No. 20, No. 2, No. 2, 1810, 948-191.

Representation in Seconding," Communications of the ADC, Vol. 28, No. 9, Rep. 1888, 044-100. Gelf 5, 0414, "Application of the Computer Endow Scidence Theory in Fines EDS Date Arminis," Nature S Beside, the Electrical Intersection Computers of the

 [669] A.J. Swylin, "Fishess Resemblion of Sunst Frair Electrical Schemics," IEEE Trade polices, Associated Schemics Intelligence, Vol. 7, No. 5, Sept. 1980, 189-806.
 [663] Y. S. Georgiero, Vol. 7, No. 7, Now. 1981, Now. 10, 1202. Sept. Springer, 1981, No. 7, No. 1812.

Nowards, * DEEX Spectrum, Vol. 20, No. 8, Log. 1823, 37-44. No. 9 B. Hayan-Sonh, S. Hoyan-Sonh, S. Nowahoshnin, and S.

Hells J. Heem, "Differentiation of Homes and Sixturbal Street by Automatic Analysis." Turks. Fisiend. ACTS F. SEVER-ROID, D.A. Watercoop, and D.P. Lanet P. Seres-Roth, "Suis-Sanst Expert Systems,"

B. Mjorth, "EEG Abelysis Seard on Pinn Squein Proparties," Electroscope, (iin. Negrophysiat., Val. 1975s A. Instance and A. Munchery, "Minual Evaluation and INTIO A lankeson and A. Monoborn, "An INC Rimilator - A A. Isakason, A. Wannerburg, and C. H. Batterbare A. Isakeson, a. menometery, and L M. severmery, "Computer Armiyeis of EDS liquels with Parametric NOORLS, From IEEE, Sal. 65, So. 4 Boy 1861 481 F.E. Januar. "Report of the Committee on Matheda or A. Jacobs, 10, 16 Faldana, 10, and 16,9; Sunday, 10

Sourier Transfers," IEEE Trans. Sicond. Eng., Vol. Cong. Sci. Tech. Esp. No. 32, Bell Leborelevies, Norcey Sil, New Jersey, July 1975.

H.S. Leek and E. Schmidt, "Lift - A LoxLook Analysis

C.F. Lee. 'Expert System Design and Explanationian

R. Lindery, R.G. Sughanan, E.A. Palgenberr, and J. Lederberg, SCHORAL, New York, McGree-8511, 1980.

A. DESID, n.L. SERNEDS, BOE .. ASSISS, "Convisionation money states of conductaments units SES spectra," Psychophysialor, Vol. 8, 1880 to:

W.S. Hartin, L.C. Johnson, S.S. Vajilies, P. Neitob, S.S. Joseph, and J.D. Harten, "Pathern Recognition of

J. Robbook, "Linear Prediction, A Tuborica Series,"

7777 M.H. Penthurin, 0: hodantile, and 0.0. Government, manual population of 600 rooter, and 10.0. A new applicable in assession of 600 rooter, AIV applicable in assession till analysis, Nature of the Community of the Air Section of the Air Section 10.0. Pages 1979. Section 10.0. Applicable local community of the Air Section 10.0.

S. J. Poglis, J. G. Nyers, and S.A. Miller, "Dialog Scientists," Nucl. of Telephotic Logic for Internal Reddisks," Proc. 1202., No. 4, 1975, 404-450
 K. Poglis, "The Formalian of Composite Rypotheses In Emphasion Districts of Proceedings," 1003. Vol. 5, 1877, 1208-125.

Wintership Frees, Oxfood, New York, 108, 308-400, Mail P.C. News, "A Style of Still Fine of Kin Free Mails, "A Style of Still Fine of Kin Free Mails," June 700-40, 1000 170-4

465 522-226.

3.7 Mid. "Electronical Systems: The Standard Rodel Al Foodlets halving and the Eveletion of Slockhaud Al Foodlets halving and the Eveletion of Slockhaud Almohistotome," The Sl Regulate, Junear 159, 20-23.

7-8-12 F.L. Resea, "Classical Fields of the Resul." Design University Frees, School, Sev Yuan, 164, 365-350.

Programs, WG Sessarch Frans, Ann Arbor, Middigas, 1989.

8: McChael and J Stucklis, "Antonetic EED Analysis's Especialistic Provisions Seed on the Astrocorrelation Feweriam, "Sizertroscopic, Clis. Neurophysics., Val. 45, 222-250.

361-064,
Mebb 7. Mebarentt, "Mil A Nuls-Based Conflower of Computer Systems." Artificial Dutalliques, Vol. 19, 1882, 35-36.

BC55 J.A. McDeen and G.B. Anderson, 'Rodeling of Stationarity and Gamminalty of Specianova ECC Settlety,' SEE Franc. Ricad. Eng., Vol. 22, 1975, 361-364. 798 J.C. Filolipe and J.E. Balth, 'Comign and laplamentation of Linear Plane FIR Filters (or Liqu. No. 3, No. 1, No. 1, No. 1, No. 1, No. 1, Liqu. No. 3, No. 1, Hander-Edeck Texturburgs, Tenburges and Serving Standar-Edeck Texturburgs, Tenburges and Serving Standar-Edeck Texturburgs, Tenburges and Serving Standar-Edeck Texturburgs, Tenburges and Serving Standards of Liquid Servines and Serving Offices.

Wealington S.C., 1548.
M. Seniod, "The Expertence of Expopressive Sets of EMP Exercises and an illectric Todal to RegInduce Ther. Electrochecyle. Clin. Hecosphysics., Rugsl. 27, 1948, 27-49.

P. Boss, "Computate in Madissal Disquests," (NC Cities) Review of Estimated todatos, Vol. 3, 1972, 1974.
 1972, 1974.
 1974, 1974.
 1974, 1974.
 1974, 1974.
 1975, 1974.
 1976, 1974.
 1977, 1974.
 1977, 1974.
 1977, 1974.
 1977, 1974.
 1977, 1974.
 1977, 1974.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.
 1977, 1977.</li

80.5. Sep. 1890, 400-41.
80.5. Sep. 1890, 400-41.
80.7. E. Brattiffe, S. O. Alline, B.D. Budharan, T.C. Hetfern, and L.R. Chiek, "An avaidited in Tenkliconte Program in Advise Physicisms appeared antificings in Advise Physicisms Report Antificing Sep. 344-360.
80.8. Sep. 1800, 100 per 1800 per

5-N. SECTLISTO, Computer-bound Clinical Docal Adda MCCA, Simular, Sec York, 1999.

5-M. Mortiller, S.C. Debboner, and S.A. Palgotton Planelsque Següenering for Secious Desirator Majora Parism of Computer-bound Clinical Desirator Adda From. ICEM, Vol. 15, Sep 1979, 1879-1228.

Managaran MyOrld Symme are managaran age resonant per properties and Scientification (Tell Contentions), Geophysics and Scientification (Inches September 2017), 270-129.
 J. B. Ellin, "Assembled Assigned and potential of Edition," IEEE Trans. Scientific September 2018, 192, 89, 1, 38: 1944, 197.

1873 J. Salbo, W.F. Fudde, W.C. Yeo, and E.A. Rebuell "Setestion of Junes: Elemp Eto Newstorne, Electromosph. Clim. Heartghysidi., No. 36, 109-431-427. 6m70 J.S. Snith, J. Sarsonn, and M. Yang, "Astomated Analysis of the Emans Starp ESG," Making and Elaspleg, Vol. 2, 1979, 79-82.
Baffin J.S. Baith, "Computers in Stone Senancia," Critical Environ in Microgramston, No. 3, Sec. 2978, 53-162.

Baffe C.F. Baits, "Computers in Steep Research," Cition Exviews in Microginaering, Not. 3, Nov. 1978, 33-141 [647] J.B. Saith, X. Kareges, and H. Yang, "Arrimats manurament of Alpho, Noth. Signs, son thate Not Chamberlattics," Liney, Vol. 1, 706 (4, 1978).

 Mo. 11. Nov. 1183, 790-799.
 Sabi J. S. Ladak, "Asymmetric designs of Slamp BHD Data." Chapter A. Hondbook of Electrosensuphalojusyly and Clubias Naversylvidelpy, No. 27, Electric School Clubias Naversylvidelph Naversylvidelph Naversylvidelph Naversylvidelph Naversylvidelph Naversylvidelph Naversylvidelph Naversylvidelph
 No. 24, Electric Nav

Himbers F. Expendance, and E Escandell, "The Organization of Expent Systems, A Tatogial," Swifficial Schoolington, Vol. 18, 50; 2, 155-79. NOT P. Escandin and S.A. Pucker, "Computer and Clinical

 B. Backevic and S.-P. Penhar, "Computer and dishinal Batalon-Holony Surve, Nov. and For None)," From-Bill, Vol. 47, 2079, 1224-1224.
 P. Tong, "Autorectnative Hodel Pinking with Holar 260 by Abalia's Information Coloredon," 1888 Trans. Johns. Phoney, Vol. 20, 2013 177, 478-402.

indown, Theory, Vol. 21, July 1975, 470-182. 6850 S.A. Meherman, A Galde to Expert Systems, Addison Wasley Publicating Co., Sanling, Managements, 1986.

Marto P.C. Welch. "The Use of Fact Fourier Transform for the Ertisetion of Post Spectre," IEEE Trans. Audio Englishment, Vol. 15, June 1991, 70-72.

Electromometr, Vol. 15, June 1979, TC-72: HV95 H: Walleys and R. Gregor, "The Secondition Lineau A Petitor, Recognition Technique for Internet Electro-Electromometric Calls. Secondary 50, 1913, 50, 1972, 504-513. HV950 S. HV Melas, C.A. Schikmentr, S. Marzal, Sch. 2412, "A Media-Integrit Patriol for Computer-widel Section."

297, 149-172-17

Electro-scouphstography (EEO) of Suren Sleepe Clinical Residentions, John Wiley and Stee, New York, 1974.

E.C. You and J.A. Balth, "Walsh Power Spacers of Ruman Electroscophologrem," In Proc. Appl. Walsh Functions, 1972, 139-142.

I cortify that I have read this study and that in opinion if conforms to acceptable standards of actobic personviction and is dully singuist, in secure and quality, a dissertation for the degree of foctor of fmilesophy.

THEN R. SHIPS, CONTRACT

Contify that I have read this abody and that is my opinion is conferent to acceptable standards of scheduly presentation and is fully obsquare, in scape and quality, as

> Professor of Electrical Engineering

I cartify that I have read this study and that is an opinion it confure to ecosytable atminards of esholerly planefablics and is slilly adequate, in scope and quality, on a dissertation for the degree of Destry of Philosophy.

Antesio A Allego Associate Professor of Electrica Engineering

I markify that I have read this study and that Lo my epimies it confirms to acceptable standards of mobelsky presentation and is dully adequate, in scope and quality, as a disassistion for the degree of booter of reliasiphy.

> E-V-CA MARINTANA PRODURES OF Electrical

I certify that I have read this study and that is my equate it condumes to acceptable stendards of scholarly presentation and is fully sequent, in scope and quality, as a dissertation for the degree of Scottor of Millosophy.

Secres Logothatia Associant Frodeseov of Computer

This dissertation was submitted to the Graduats Esculty of the Cullage of Engineering and to the Ereduats Edmoi, and was assigned as partial fulfillment of the requirements for the degree of Soctor of Philosophy.

Sent, College of Engineering

Sent, Occupied Rabout